

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

FINAL

Merced to Fresno Section Project EIR/EIS **Volume III:**

Section A2 – Alignment Plans UPRR/SR 99 Alternative with Ave 24 Wye

April 2012



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration

VOLUME 1 - GENERAL & TRACK ALIGNMENT

DRAWING No.	REV No.	DRAWING DESCRIPTION
		VOLUME 1A - GENERAL
GE-D0001		PACKAGE 1A - TITLE SHEET
GE-A0001		PACKAGE 1A - GENERAL - INDEX OF DRAWINGS
TT-B0001		PACKAGE 1A - GENERAL - NOTES
VS-C0001		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 1 OF 4
VS-C0002		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 2 OF 4
VS-C0003		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 3 OF 4
VS-C0004		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 4 OF 4
		VOLUME 1B - TRACK ALIGNMENT
TT-B0001		PACKAGE 1A - TRACK GUIDEWAY - KEY MAP
TT-D3001		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3002		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3003		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3004		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3005		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3006		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3007		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3008		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3009		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
CB3010		FRESNO SUBSECTION - ALIGNMET F1 - CROSS SECTIONS
CB3011		FRESNO SUBSECTION - ALIGNMET F1 - CROSS SECTIONS
TT-D0001		PACKAGE 1A - TRACK GUIDEWAY - HORIZONTAL ALIGNMENT DATA
TT-D1000		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10535+00 TO 10554+00
TT-D1001		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10554+00 TO 10582+00
TT-D1002		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10582+00 TO 10610+00
TT-D1003		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10610+00 TO 10638+00
TT-D1004		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10638+00 TO 10666+00
TT-D1005		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10666+00 TO 10694+00
TT-D1006		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10694+00 TO 10722+00
TT-D1007		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10722+00 TO 10750+00
TT-D1008		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10750+00 TO 10778+00
TT-D1009		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10778+00 TO 10806+00
TT-D1010		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10806+00 TO 10834+00
TT-D1011		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10834+00 TO 10862+00
TT-D1012		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10862+00 TO 10890+00
TT-D1013		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10890+00 TO 10918+00
TT-D1014		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10918+00 TO 10946+00
TT-D1015		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10946+00 TO 10974+00
CB1657		FRESNO SUBSECTION - ALIGNMET F1 - STA. 257+24.56 TO 261+00
CB1658		FRESNO SUBSECTION - ALIGNMET F1 - STA. 261+00 TO 275+00

CB1659		FRESNO SUBSECTION - ALIGNMET F1 - STA. 275+00 TO 289+00
CB1160		FRESNO SUBSECTION - ALIGNMET F1 - STA. 289+00 TO 303+00
CB1161		FRESNO SUBSECTION - ALIGNMET F1 - STA. 303+00 TO 317+25
		TT-D0016 TO TT-D1029 NOT USED
TT-D1030		PACKAGE 1A - SJVRR SOUTH SPUR - PLAN AND PROFILE - STA. 0+00 TO STA. 8+68.74

REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY DRAWN BY A. SHIELDS	PROPOSED PRELIMINARY DESIGN NOT FOR CONSTRUCTION	AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL
					02/01/2012			



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
GENERAL
INDEX OF DRAWINGS

CONTRACT NO.
DRAWING NO.
GE-A0001
SCALE
NONE
SHEET NO.

GENERAL NOTES

TRACK GENERAL NOTES:

A. GENERAL

1. IN-SCOPE AND NOT IN-SCOPE ITEMS ARE IDENTIFIED IN THE SCOPE OF WORK ATTACHMENT (ELEMENTS MATRIX + SCOPING TYPICAL SECTIONS)
2. REFER TO SCOPE OF WORK DOCUMENTATION IN THE PROCUREMENT PACKAGE FOR SCOPE REQUIREMENTS. FINAL DESIGN AND DIMENSIONS SHALL BE BASED ON DESIGN CRITERIA, DIRECTIVE DRAWINGS AND STANDARD DRAWING REQUIREMENTS.

B. CONTROL SURVEY AND MAPPING:

1. NAD 83 (NSRS2007), (1991.35)CALIFORNIA COORDINATE SYSTEM DATUM SHALL BE USED AS HORIZONTAL COORDINATE VALUES.
2. NAVD 88 VERTICAL DATUM SHALL BE USED AS VERTICAL DATUM.
3. MAPPING SHALL BE BASED ON CALIFORNIA COORDINATE SYSTEM (CCS 83) IN US CUSTOMARY UNITS.
4. NETWORK OF CONTROL SURVEY MONUMENTS WAS ESTABLISHED AT TWO MILE INTERVALS ALONG THE CHSTP ALIGNMENT. THESE CONTROL MONUMENTS SHALL BE USED IN FUTURE SURVEYS TO ENSURE THAT SURVEY ACTIVITIES ARE BASED ON THE SAME ADJUSTMENT POSITIONS AND EPOCH THAT TRANSITIONS BETWEEN ZONES OF THE CALIFORNIA COORDINATE SYSTEM ARE UNIFORM AND CORRECT.

A. GENERAL TRACK NOTES:

1. THE GENERAL BASIS FOR TRACK STANDARDS AND MATERIALS SHALL BE THE AREMA MANUAL.
2. TRACK AND TRACK COMPONENTS SHALL BE DESIGNED AND FABRICATED TO PERFORM UNDER THE PREVAILING AND EXTREME CLIMATIC AND ENVIRONMENTAL CONDITIONS OCCURRING WITHIN THE GEOGRAPHIC EXTENT OF THE SYSTEM.
3. THE PROFILE IS CARRIED ON THE TOP OF LOWER RAIL THROUGH HORIZONTAL CURVES AND SPIRALS FOR THE DESIGNATED TRACK.
4. THE LENGTHS OF LINES ARE BASED ON CENTER OF TRACK ALIGNMENT.
5. UNLESS SEPARATE TRACK PROFILES ARE GIVEN, TRACK PARALLEL TO THE DESIGNATED TRACK ARE AT THE SAME TOP OF RAIL ELEVATIONS PROJECTED ON EITHER PERPENDICULAR OR RADIAL LINES FROM THE DESIGNATED TRACK CENTERLINES.
6. BALLASTED TRACKS ARE GENERALLY PREFERRED FOR YARD TRACKS. DESIGNERS SHALL FOLLOW THE REQUIREMENTS ASSOCIATED WITH CONSTRUCTION OF BALLASTED TRACK IN THE CALIFORNIA HIGH SPEED TRAIN DESIGN MANUAL.
7. DIMENSIONS SHOWN ON THE DESIGN DRAWINGS WERE DEVELOPED BY PRELIMINARY ENGINEERING AND FINAL DIMENSIONS WILL BE DETERMINED ON THE FINAL TRACK PLANS BY THE DESIGN BUILDER.
8. "ORIGINAL GROUND" SHOWN ON CROSS SECTIONS REFERS TO THE APPROXIMATE EXISTING GROUND LINE AT THE DESIGNATED CENTERLINE, BASELINE, LAYOUT LINE OR SECTION LINE.

REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY A. SHIELDS	DRAWN BY A. SHIELDS	CHECKED BY A. BOONE	IN CHARGE A. BOONE	DATE 02/01/2012

PROPOSED
PRELIMINARY
DESIGN
**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

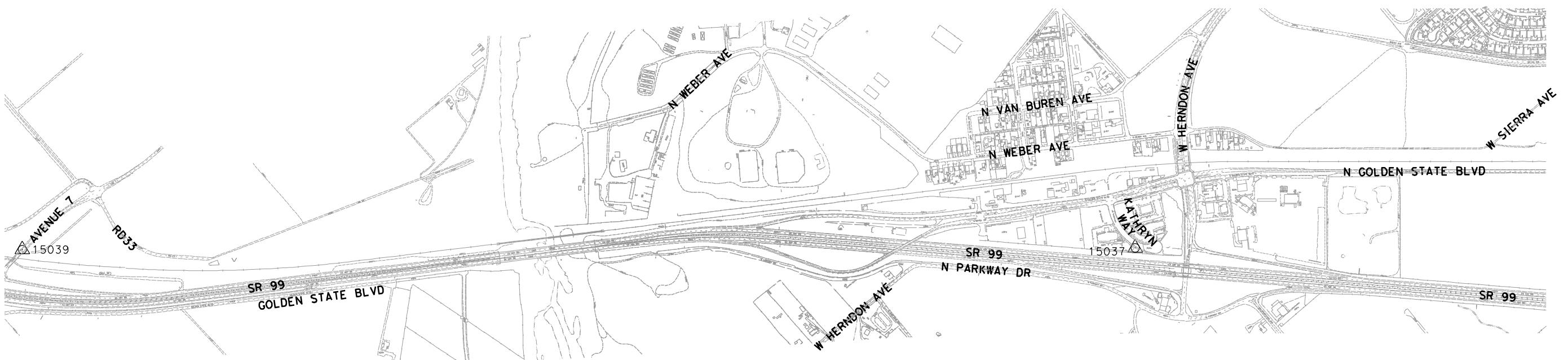


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
TRACK GUIDEWAY
GENERAL NOTES

CONTRACT NO.
DRAWING NO.
TT-B0001
SCALE
NONE
SHEET NO.

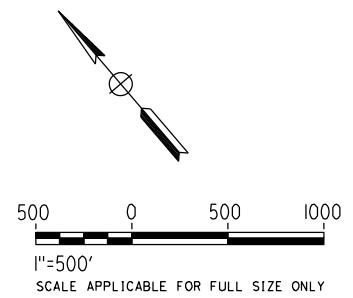
NOTES:

1. HORIZONTAL CONTROL DATUM:
THE HORIZONTAL GRID COORDINATES SHOWN HEREIN ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD 83), CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE IV.
2. VERTICAL CONTROL DATUM:
THE VERTICAL DATUM FOR THE ELEVATIONS SHOWN HEREIN ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. PROJECTION:
LAMBERT CONIC PROJECTION



HORIZONTAL AND VERTICAL CONTROL INFORMATION

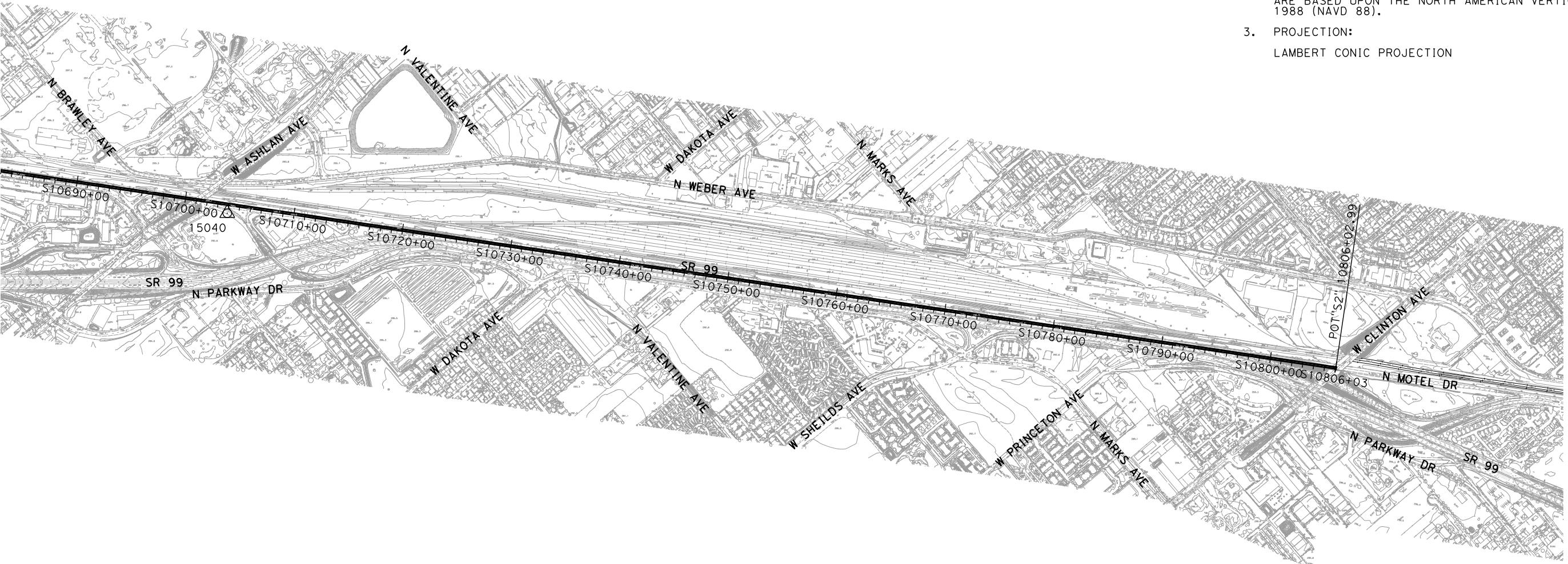
POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
15037	PB CONTROL: S182-P 2½" BRONZE DISK IN 1" IRON PIPE IN 8" CONCRETE PIER, STAMPED "CHSRA S182P LS 4430 2010"	2187855.88	6292923.69	300.64
15039	NGS CONTROL: DG9697	2194533.009	6285098.921	318.89



DESIGNED BY A. SHIELDS	PROPOSED PRELIMINARY DESIGN	AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION PACKAGE 1A GENERAL SURVEY CONTROL DATA SHEET 1 OF 4	CONTRACT NO. DRAWING NO. VS-C0001 SCALE AS SHOWN SHEET NO.
DRAWN BY F. DeMARCO	NOT FOR CONSTRUCTION	CH2MHILL			
CHECKED BY S. WONG					
IN CHARGE A. BOONE					
DATE 01/09/2012					
REV DATE BY CHK APP	DESCRIPTION				

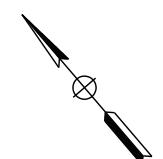
NOTES:

1. HORIZONTAL CONTROL DATUM:
THE HORIZONTAL GRID COORDINATES SHOWN HEREIN
ARE BASED UPON THE NORTH AMERICAN DATUM OF
1983 (NAD 83), CALIFORNIA STATE PLANE COORDINATE
SYSTEM, ZONE IV.
 2. VERTICAL CONTROL DATUM:
THE VERTICAL DATUM FOR THE ELEVATIONS SHOWN HEREIN
ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF
1988 (NAVD 88).
 3. PROJECTION:
LAMBERT CONIC PROJECTION



HORIZONTAL AND VERTICAL CONTROL INFORMATION

POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
15040	NCS CONTROL: AC6102	2172846.932	6309610.265	292.45



500 0 500 1000
I''=500'
SCALE APPLICABLE FOR FULL SIZE ONLY



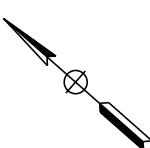
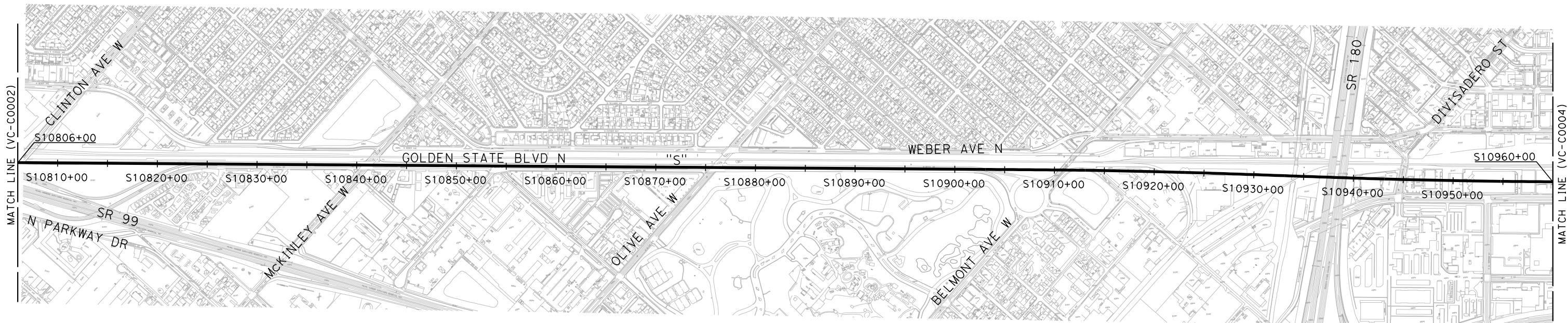
CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

**PACKAGE 1A
GENERAL
SURVEY CONTROL DATA
SHEET 2 OF 4**

CONTRACT NO.
DRAWING NO.
VS-C0002
SCALE
AS SHOWN
SHEET NO.

NOTES:

1. FOR LOCATION OF CONTROL POINT # 15037 (S182P)
SEE SHEET VS-C001
- FOR LOCATION OF CONTROL POINT # S193P
SEE SHEET VS-C0004



500 0 500 1000
1"=500' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

DESIGNED BY S. CHRISTENSEN	PROPOSED PRELIMINARY DESIGN	URS HMM ARUP			
DRAWN BY S. AVILES	NOT FOR CONSTRUCTION	CALIFORNIA HIGH-SPEED TRAIN			
CHECKED BY J. LABANOWSKI					
IN CHARGE G. HORTON					
DATE 12/08/11					
REV	DATE	BY	CHK	APP	DESCRIPTION

PROPOSED
PRELIMINARY
DESIGN

NOT FOR
CONSTRUCTION

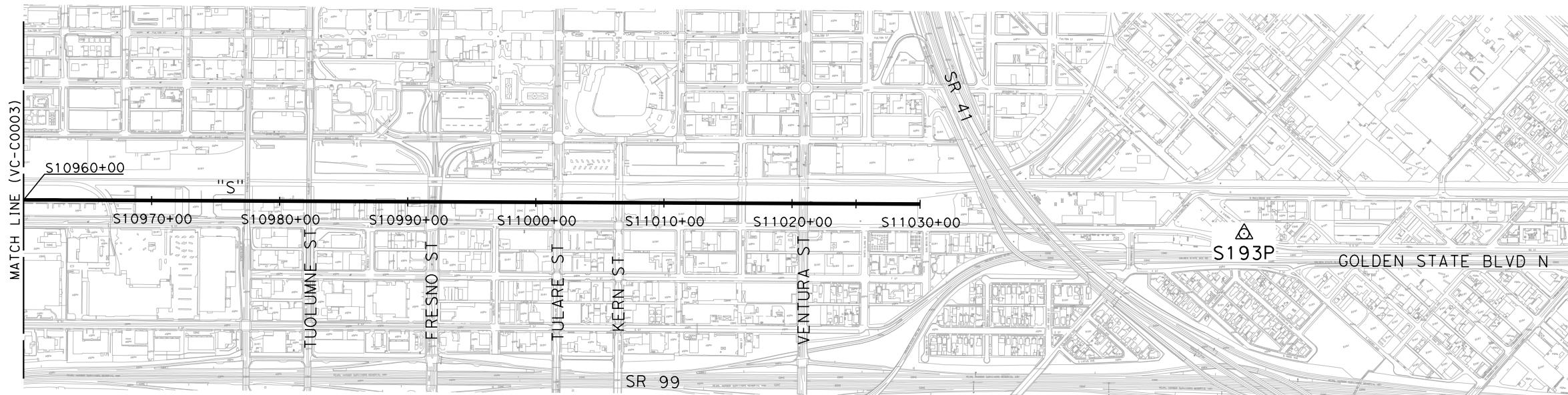


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
GENERAL
SURVEY CONTROL DATA
SHEET 3 OF 4

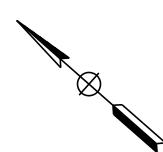
CONTRACT NO.
DRAWING NO.
VS-C0003
SCALE
AS SHOWN
SHEET NO.

NOTES:

1. DATA SHOWN HEREON IS BASED ON SURVEY CONTROL MONUMENT DATA SHEETS AND MAP ON FILE IN THE OFFICE OF THE CHSRA
2. HORIZONTAL CONTROL DATUM:
THE HORIZONTAL GRID COORDINATES SHOWN HEREIN ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83). CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE IV, US SURVEY FEET
3. VERTICAL CONTROL DATUM:
THE VERTICAL CONTROL DATUM FOR THE ELEVATIONS SHOWN HEREIN ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), US SURVEY FEET
4. PROJECTION:
LAMBERT CONIC PROJECTION



POINT #	DESCRIPTION	N	E	ELEV	LOCATION
S193P	FOUND STANDARD CHSRA 2-1/2" BRONZE DISK IN 1" IRON PIPE IN 8" CONCRETE PIER STAMPED "S193P LS4430 2010"	ZONE 4 2146202.84	6332518.62	286.04	IN THE CITY OF FRESNO, COUNTY OF FRESNO, 450 FEET SOUTHERLY ALONG CHERRY AVENUE FROM THE INTERSECTION OF CALIFORNIA AVENUE, 7.8 FEET WESTERLY OF THE WEST CURB FACE OF CHERRY AVENUE, 11.8 FEET NORtheASTERLY OF THE NORtheASTERLY CURB FACE OF G STREET.

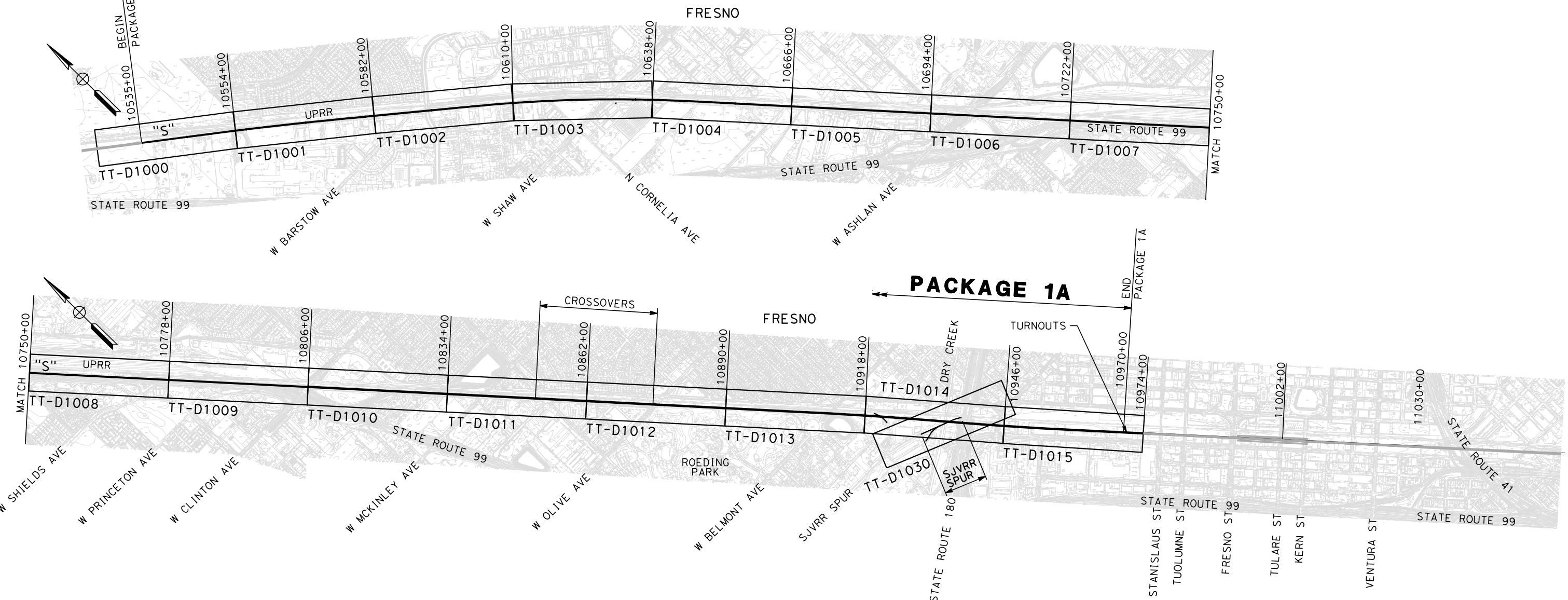


500 0 500 1000
1"=500' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

DESIGNED BY S. CHRISTENSEN	PROPOSED PRELIMINARY DESIGN	URS HMM ARUP CALIFORNIA HIGH-SPEED TRAIN	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION PACKAGE 1A GENERAL SURVEY CONTROL DATA SHEET 4 OF 4	CONTRACT NO. DRAWING NO. VS-C0004 SCALE AS SHOWN SHEET NO.
REV DATE BY CHK APP	DESCRIPTION	12/08/11			

PACKAGE 1A

REFER TO SCOPE OF WORK DOCUMENTATION IN THE PROCUREMENT PACKAGE FOR SCOPE REQUIREMENTS. FINAL DESIGN AND DIMENSIONS SHALL BE BASED ON DESIGN CRITERIA MANUAL, DIRECTIVE DRAWINGS, AND STANDARD DRAWINGS REQUIREMENTS.



1000 0 1000 2000
1"=1000'
SCALE APPLICABLE FOR FULL SIZE ONLY

					DESIGNED BY K. SEYMORE
					DRAWN BY P. TONKIN
					CHECKED BY D. HUNT
					IN CHARGE R. COFFIN
					DATE 02/17/12
REV	DATE	BY	CHK	APP	DESCRIPTION

PROPOSED
PRELIMINARY
DESIGN
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN

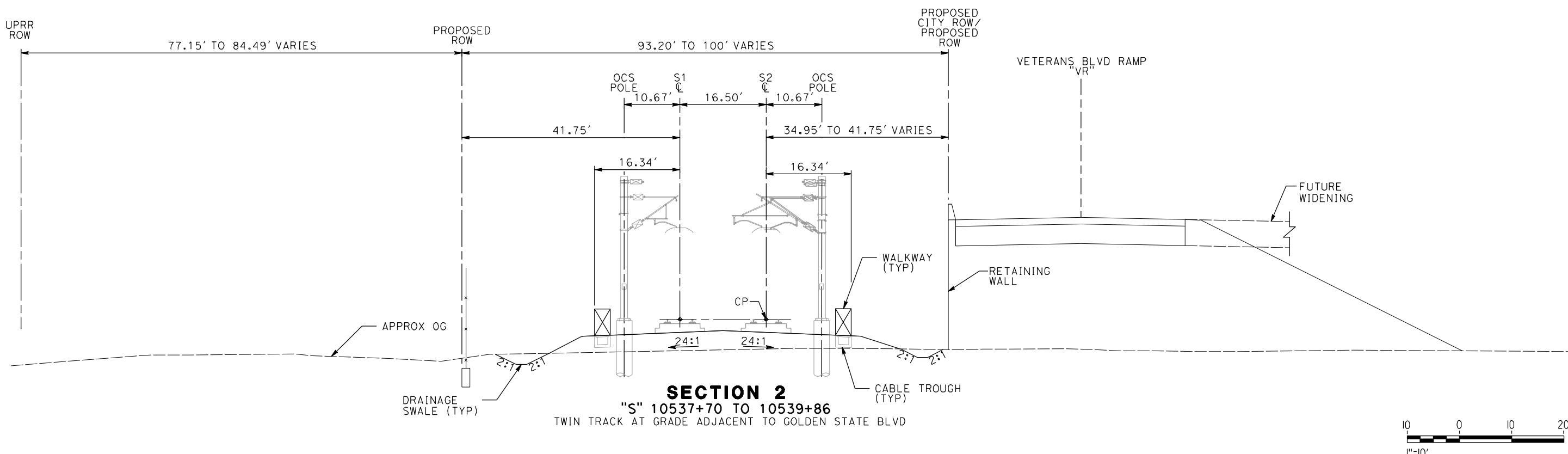
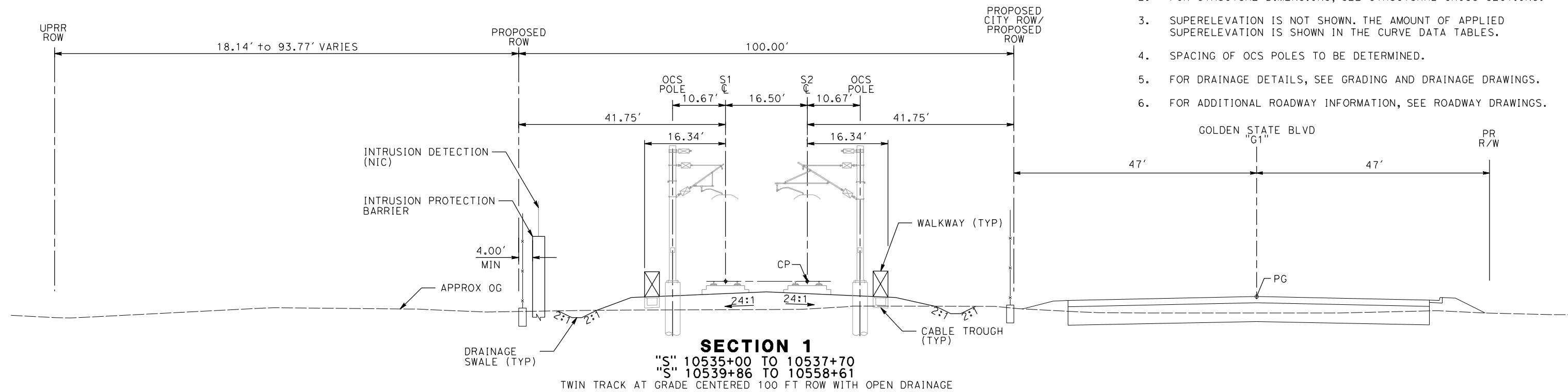


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
TRACK GUIDEWAY
KEY MAP

CONTRACT NO.
DRAWING NO. TT-B0001
SCALE AS SHOWN
SHEET NO.

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS, SEE STRUCTURAL CROSS SECTIONS.
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
4. SPACING OF OCS POLES TO BE DETERMINED.
5. FOR DRAINAGE DETAILS, SEE GRADING AND DRAINAGE DRAWINGS.
6. FOR ADDITIONAL ROADWAY INFORMATION, SEE ROADWAY DRAWINGS.



10 0 10 20
1'=10'

REV	DATE	BY	CHK	APP	DESCRIPTION
sullivan					01/09/2012

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
01/09/2012

PROPOSED
PRELIMINARY
DESIGN
**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

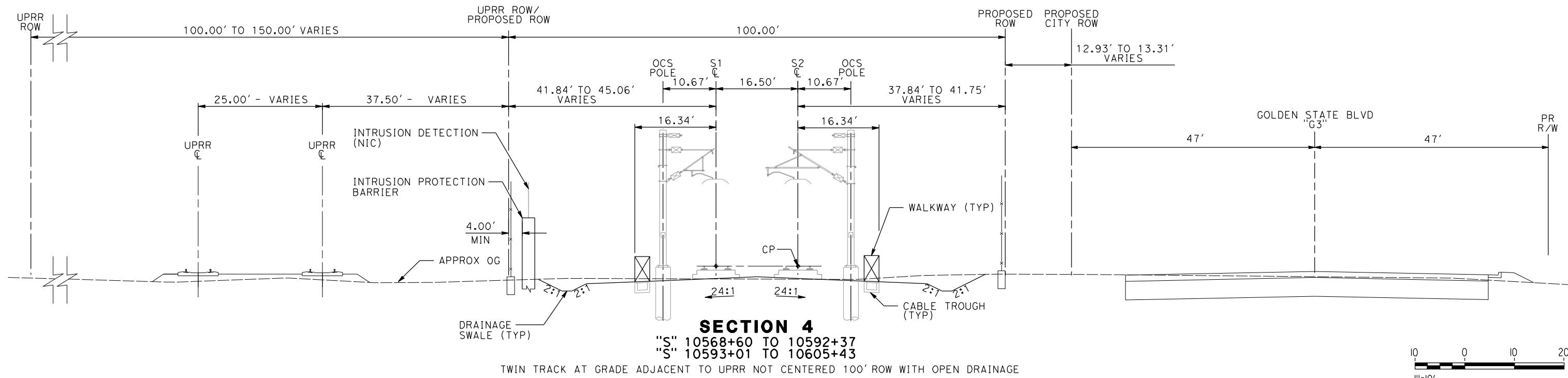
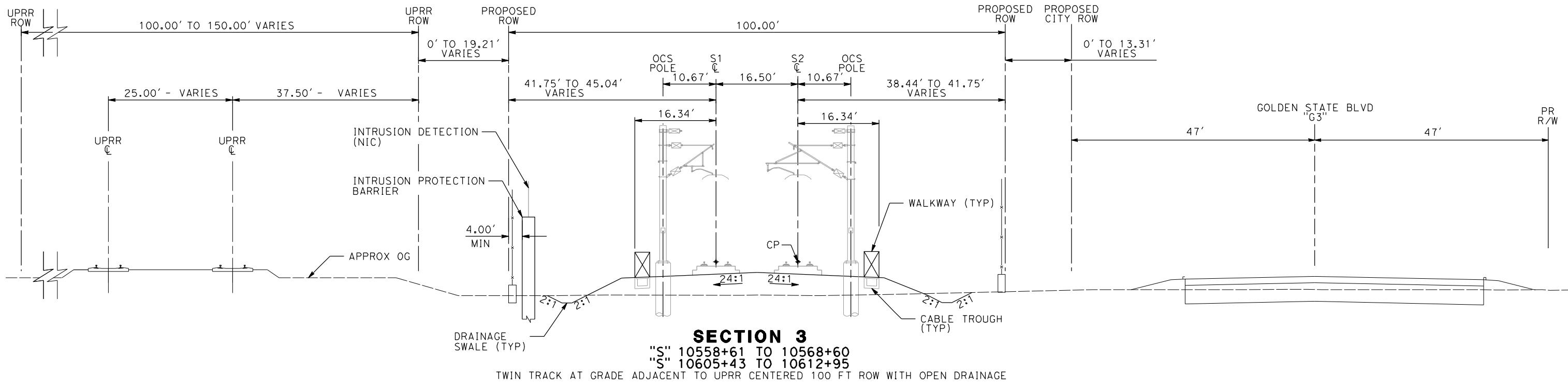


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
TRACK GUIDEWAY
TYPICAL SECTIONS

CONTRACT NO.
DRAWING NO.
TT-D3001
SCALE
AS SHOWN
SHEET NO.

NOTES:

1. FOR ADDITIONAL NOTES SEE DRAWING TT-D001.



REV	DATE	BY	CHK	APP	DESCRIPTION
sullivan					01/09/2012

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
01/09/2012

PROPOSED
PRELIMINARY
DESIGN
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



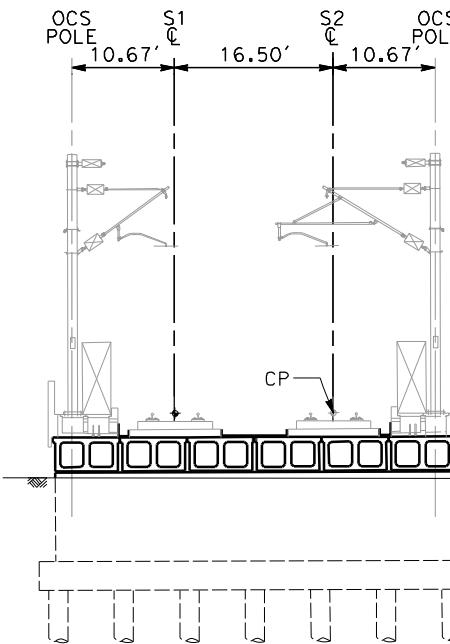
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
TRACK GUADEWAY
TYPICAL SECTIONS

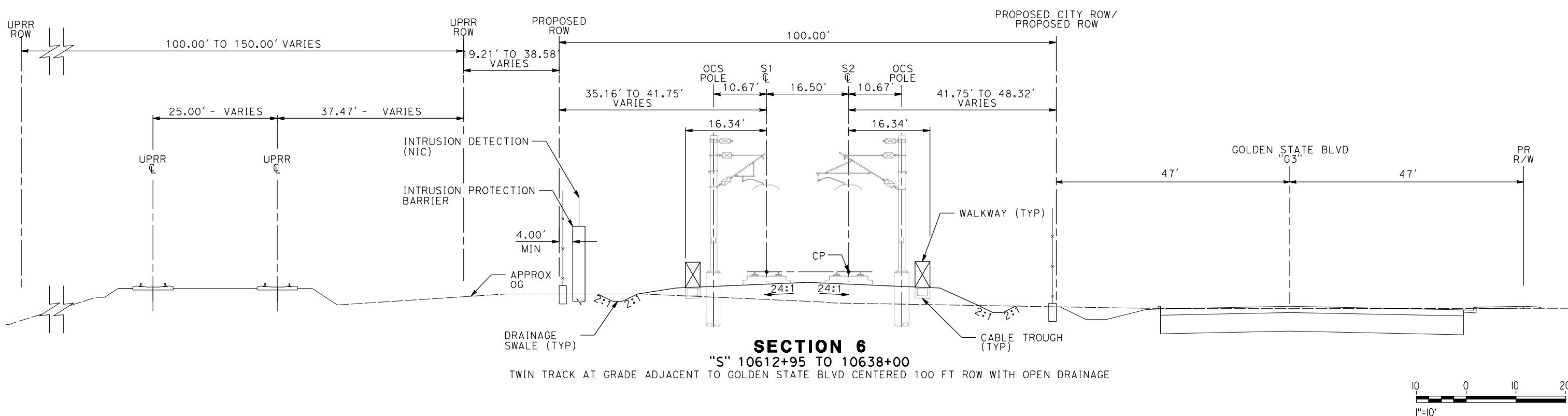
CONTRACT NO.
DRAWING NO.
TT-D3002
SCALE
AS SHOWN
SHEET NO.

NOTES:

1. FOR ADDITIONAL NOTES, SEE DRAWING TT-D001.



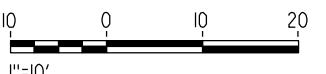
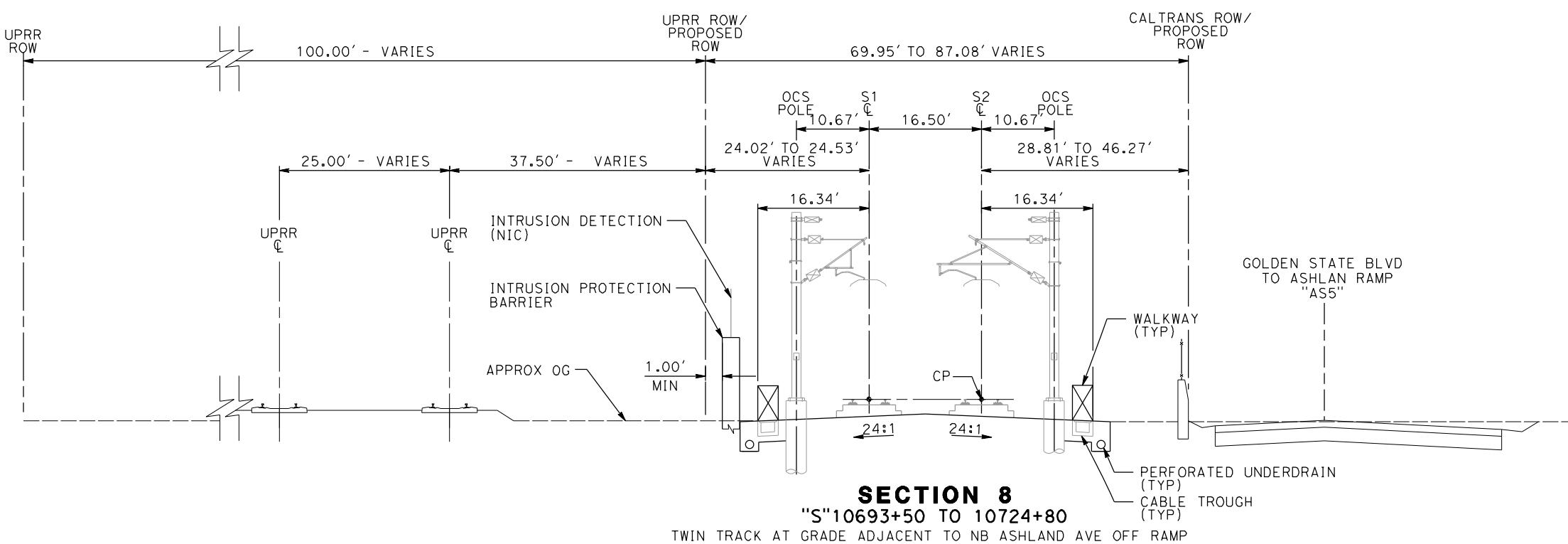
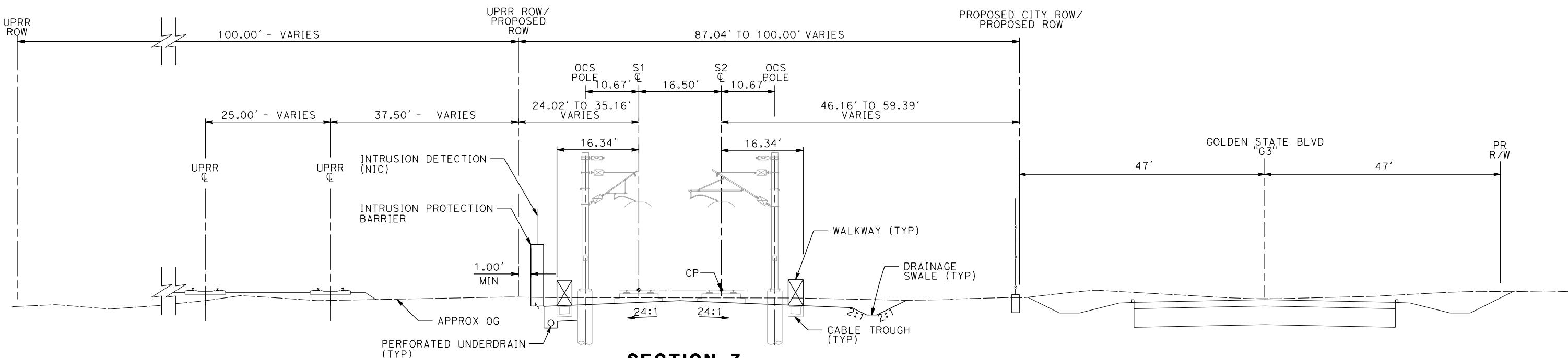
SECTION 5
"S" 10592+37 TO 10593+01
TWIN TRACK OVER HERNDON CANAL



					DESIGNED BY A. SHIELDS DRAWN BY H. SULLIVAN CHECKED BY A. BOONE IN CHARGE A. BOONE DATE 01/09/2012	PROPOSED PRELIMINARY DESIGN NOT FOR CONSTRUCTION	AECOM <small>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</small> CH2MHILL	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION PACKAGE 1A TRACK GUADEWAY TYPICAL SECTIONS	CONTRACT NO. DRAWING NO. TT-D3003 SCALE AS SHOWN SHEET NO.
1/20/2012 11:27:17 AM	CAHSRP-r1.tfb1	CHSR_half_block3.plt	\\usscr1\fp001\cadd\CHSR\60022962\Task-03_Merced-Fresno\cad\rail\Sheets\1S-TT-D3003.dgn	sullivan	REV DATE BY CHK APP DESCRIPTION	01/09/2012	10 0 10 20	1"=10'		

NOTES:

1. FOR ADDITIONAL NOTES, SEE DRAWING TT-D001.



REV	DATE	BY	CHK	APP	DESCRIPTION
sullivan	1/20/2012 11:28:29 AM	CAHSRP-r1.tfb1	CHSR_half_block3.plt	\usscr1\fp001\cad\CHSR\60022962\Task-03_Merced-Fresno\cad\rail\Sheet1\TT-D3004.dgn	

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
01/09/2012

PROPOSED
PRELIMINARY
DESIGN
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
TRACK GUIDEWAY
TYPICAL SECTIONS

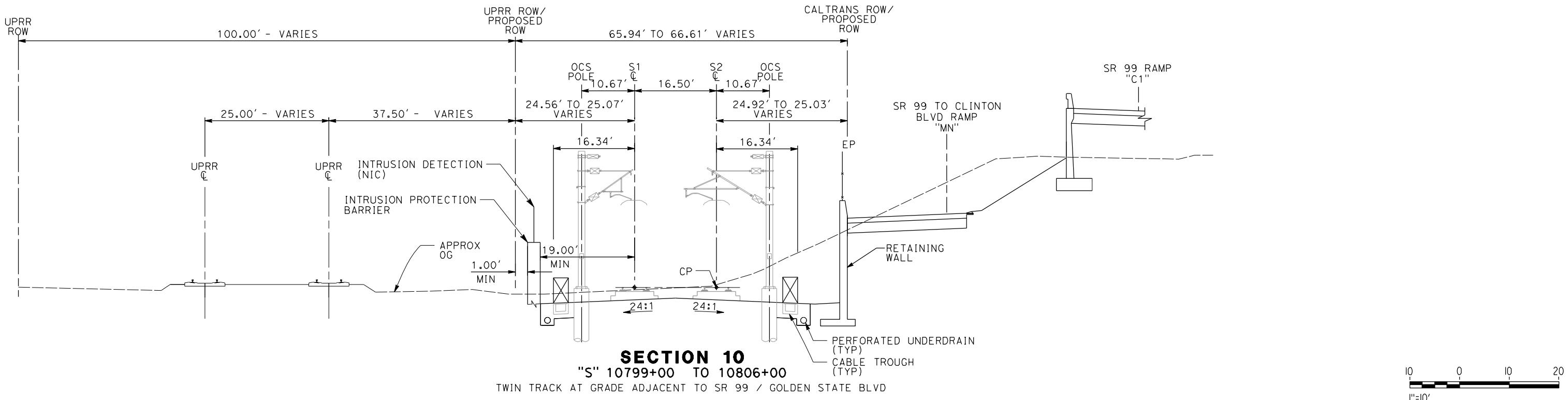
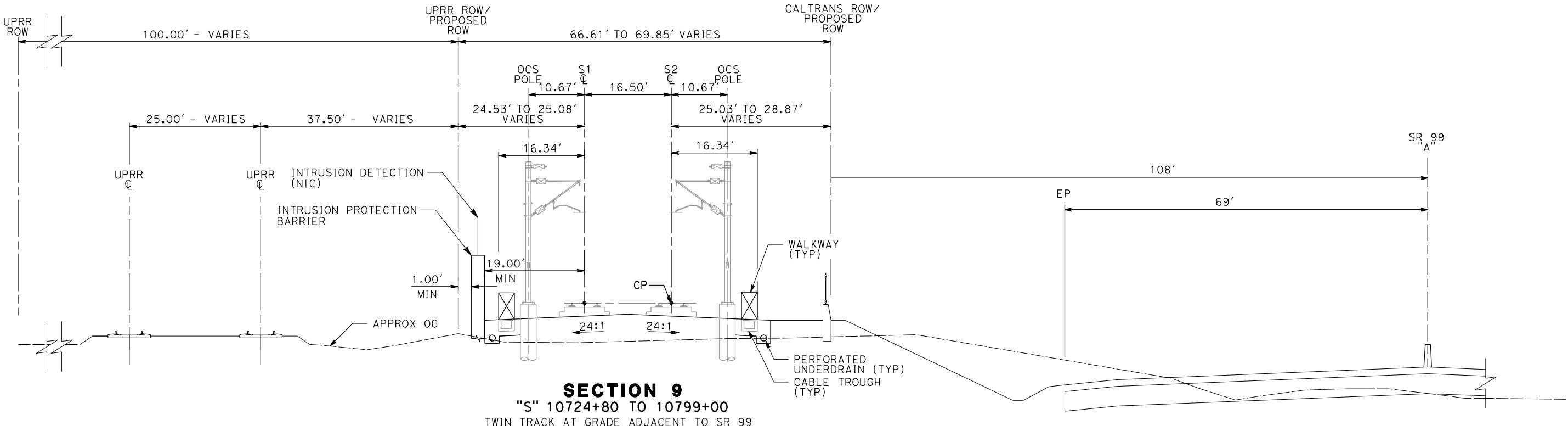
CONTRACT NO.
DRAWING NO.
SCALE
AS SHOWN
SHEET NO.

NOTES:

1. FOR ADDITIONAL NOTES, SEE DRAWING TT-D001.

NOTES:

1. FOR ADDITIONAL NOTES, SEE DRAWING TT-D001.



REV	DATE	BY	CHK	APP	DESCRIPTION
sullivan	1/20/2012 11:29:06 AM	CAHSRP-r1.tбл	CHSR_r1fp001\cadd\CHSR\60022962\Task-03_Merced-Fresno\cad\rail\Sheet115-TT-D3005.dgn	\usscr1fp001\cadd\block3.plt	

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
01/09/2012

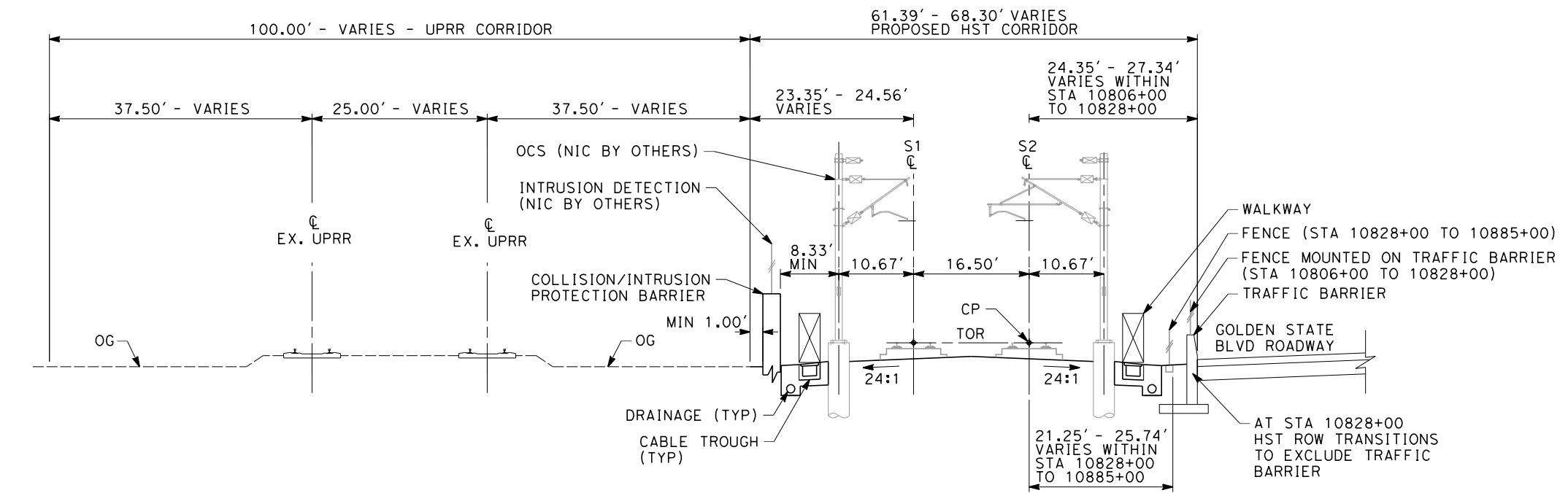
PROPOSED
PRELIMINARY
DESIGN
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



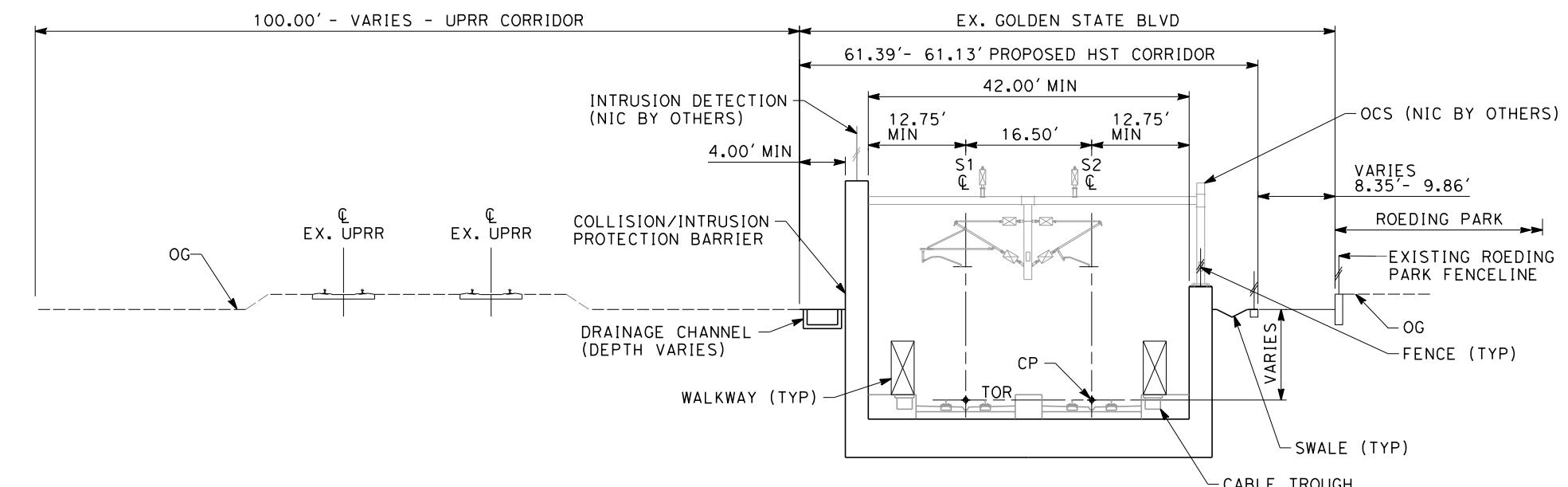
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
TRACK GUIDEWAY
TYPICAL SECTIONS

CONTRACT NO.
DRAWING NO.
TT-D3005
SCALE
AS SHOWN
SHEET NO.



SECTION 11

"S" 10806+00 THROUGH 10885+00
TWIN TRACK AT GRADE ADJACENT TO UPRR



SECTION 12

"S" 10885+00 THROUGH 10902+50
TWIN TRACK IN GRADE SEPARATION ADJACENT
TO UPRR AND ROEDING PARK

10 0 10 20
1'=10'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION
	02/17/12				

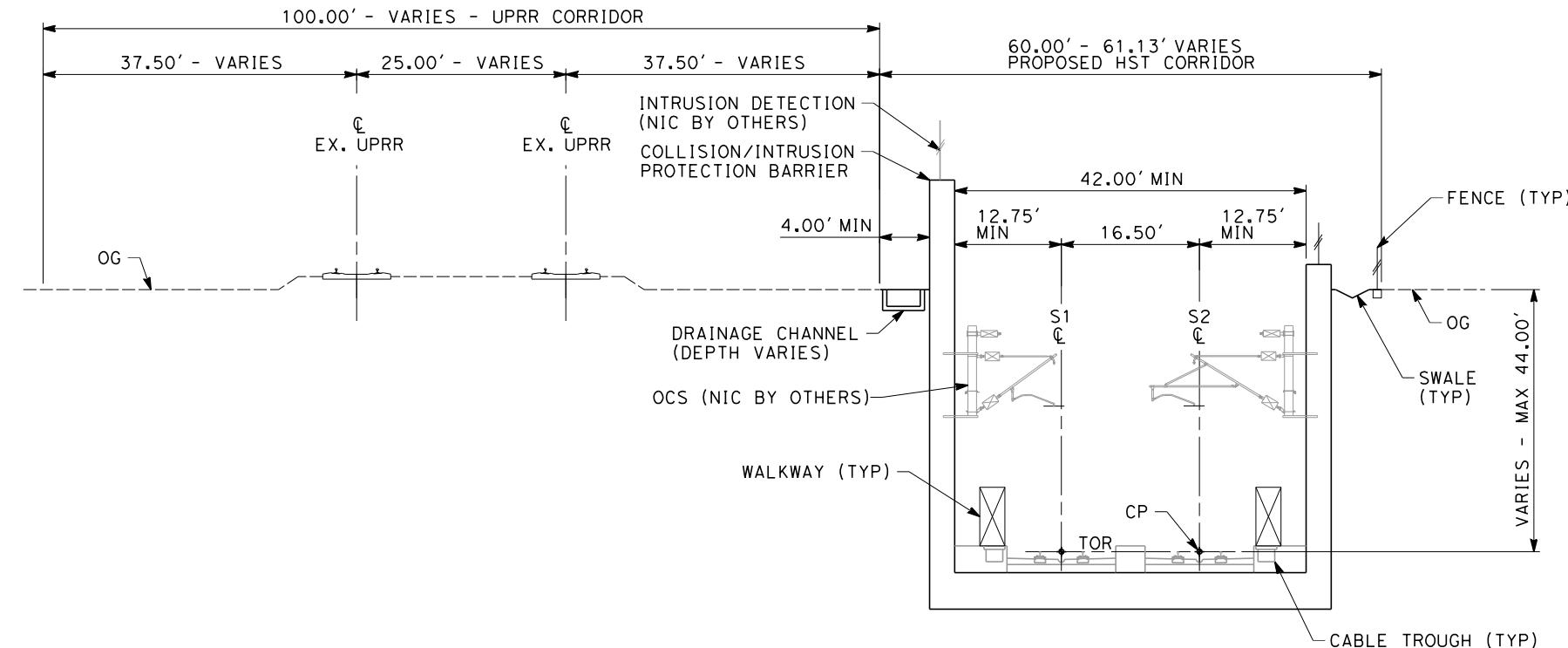
DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE

PROPOSED
PRELIMINARY
DESIGN
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
TYPICAL SECTIONS

CONTRACT NO.
DRAWING NO.
TT-D3006
SCALE
AS SHOWN
SHEET NO.

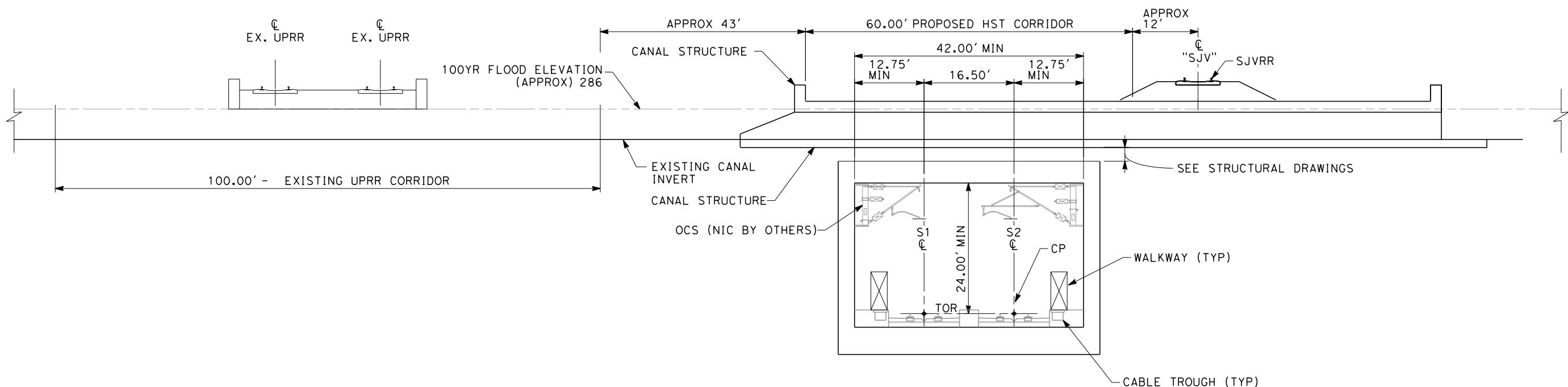


NOTES:

1. TRACKFORM SHOWN FOR INFORMATION ONLY (NIC BY OTHERS).
2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
3. FOR STRUCTURAL DIMENSIONS SEE STRUCTURAL TYPICAL SECTIONS.
4. COLLISION/INTRUSION PROTECTION BARRIER REQUIRED FROM STA 10806+00 - 10950+30

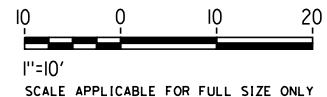
SECTION 13

"S" 10902+50 THROUGH 10936+55
 "S" 10940+15 THROUGH 10951+00
 ADJACENT TO UPRR



SECTION 14

"S" 10934+05
 TWIN TRACK IN GRADE SEPARATION UNDER CANAL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE
02/17/12

PROPOSED
PRELIMINARY
DESIGN
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN



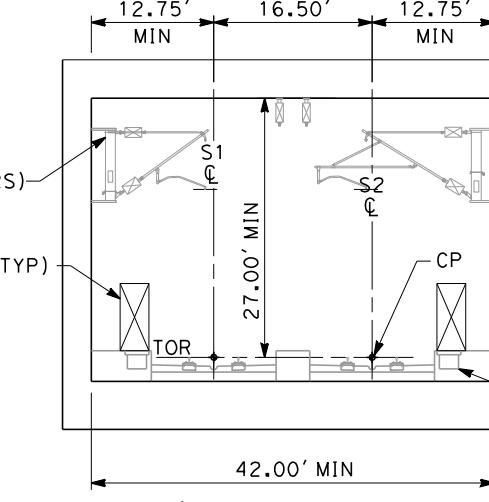
CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUADEWAY
TYPICAL SECTIONS

CONTRACT NO.
DRAWING NO.
TT-D3007
SCALE
AS SHOWN
SHEET NO.

EX. UPRR

EX. UPRR

100.00' - EXISTING UPRR CORRIDOR

SJVRR
"SJV"**NOTES:**

1. TRACKFORM SHOWN FOR INFORMATION ONLY (NIC BY OTHERS).
2. FOR STRUCTURAL DIMENSIONS SEE STRUCTURAL TYPICAL SECTIONS.
3. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.

SECTION 15

"S" 10934+90
TWIN TRACK UNDER SJVRR

OG

EX. UPRR

EX. UPRR

100.00' - VARIES - EXISTING UPRR CORRIDOR

STATE ROUTE 180

EXISTING SR 180 BRIDGE ABUTMENT

80.00' PROPOSED HST CORRIDOR

OCS (NIC BY OTHERS)

WALKWAY (TYP)

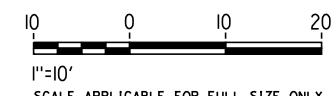
CABLE TROUGH (TYP)

27.00' MIN

42.00' MIN

SECTION 16

"S" 10936+55 THROUGH 10940+15
TWIN TRACK IN BOX ADJACENT TO SR-180 ABUTMENT



REV	DATE	BY	CHK	APP	DESCRIPTION
					02/17/12

DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE

PROPOSED
PRELIMINARY
DESIGN
**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED TRAIN

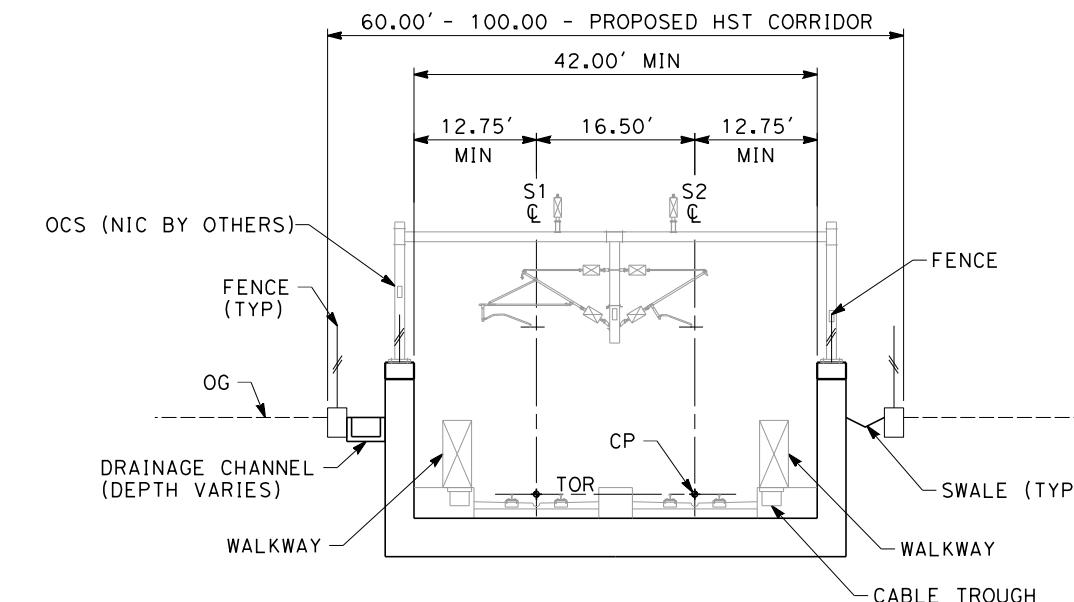


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**
PACKAGE 1A
TRACK GUIDEWAY
TYPICAL SECTIONS

CONTRACT NO.	
DRAWING NO.	TT-D3008
SCALE	AS SHOWN
SHEET NO.	

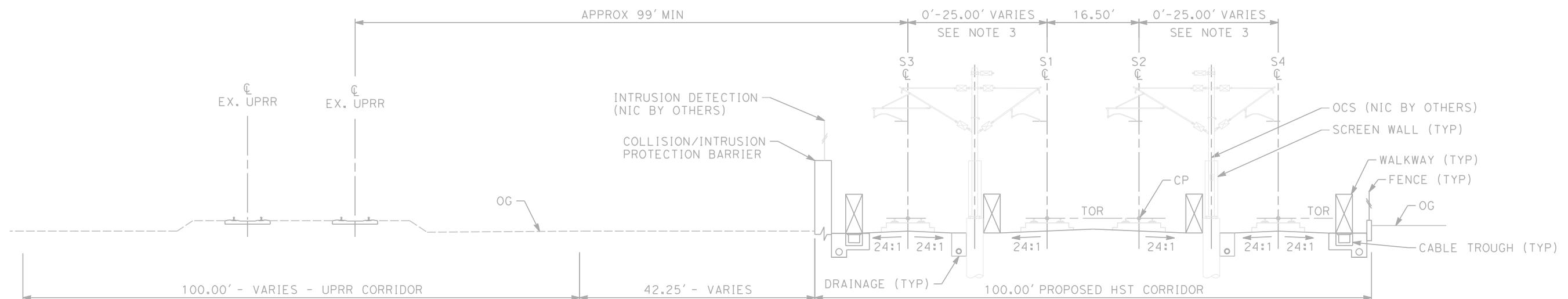
NOTES:

- TRACKFORM SHOWN FOR INFORMATION ONLY (NIC BY OTHERS).
 - FOR STRUCTURAL DIMENSIONS SEE STRUCTURAL TYPICAL SECTIONS.
 - DISTANCE BETWEEN TRACKS VARIES FROM 0.00'-25.00' THROUGH TURNTOURS AND REVERSE TO PARALLEL.
 - COLLISION/INTRUSION PROTECTION BARRIER REQUIRED FROM STA 10806+00 - 10950+30 AND STA 10990+70 - 11030+00
 - SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.



SECTION 17

(PACKAGE 1A)
"S" 10951+00 THROUGH 10970+00
TWIN TRACK IN GRADE SEPARATION

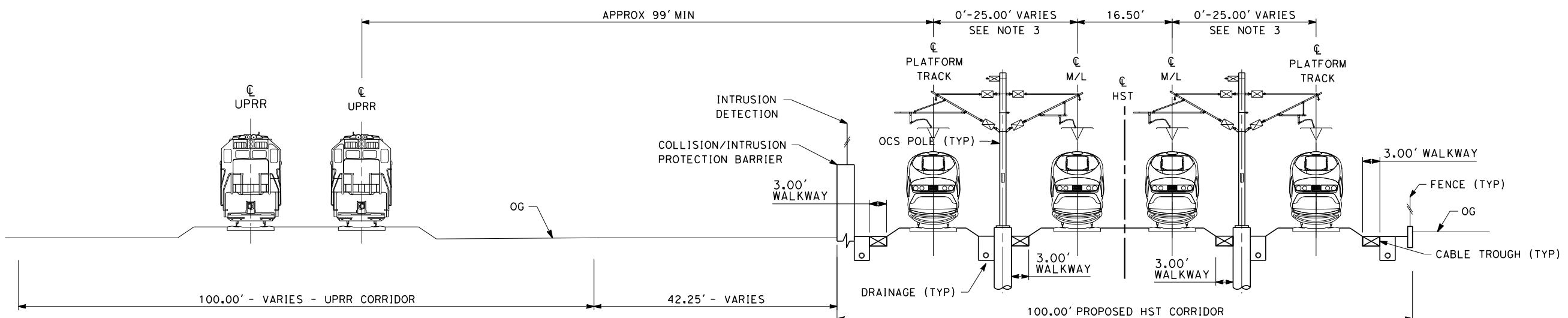


SECTION 18

(PACKAGE 1B)
"S" 10970+00 THROUGH 10991+52
"S" 10992+67 THROUGH 10992+95
"S" 11007+05 THROUGH 11007+80
"S" 11026+00 THROUGH 11030+00
4 TRACK AT GRADE STATION APPROACH

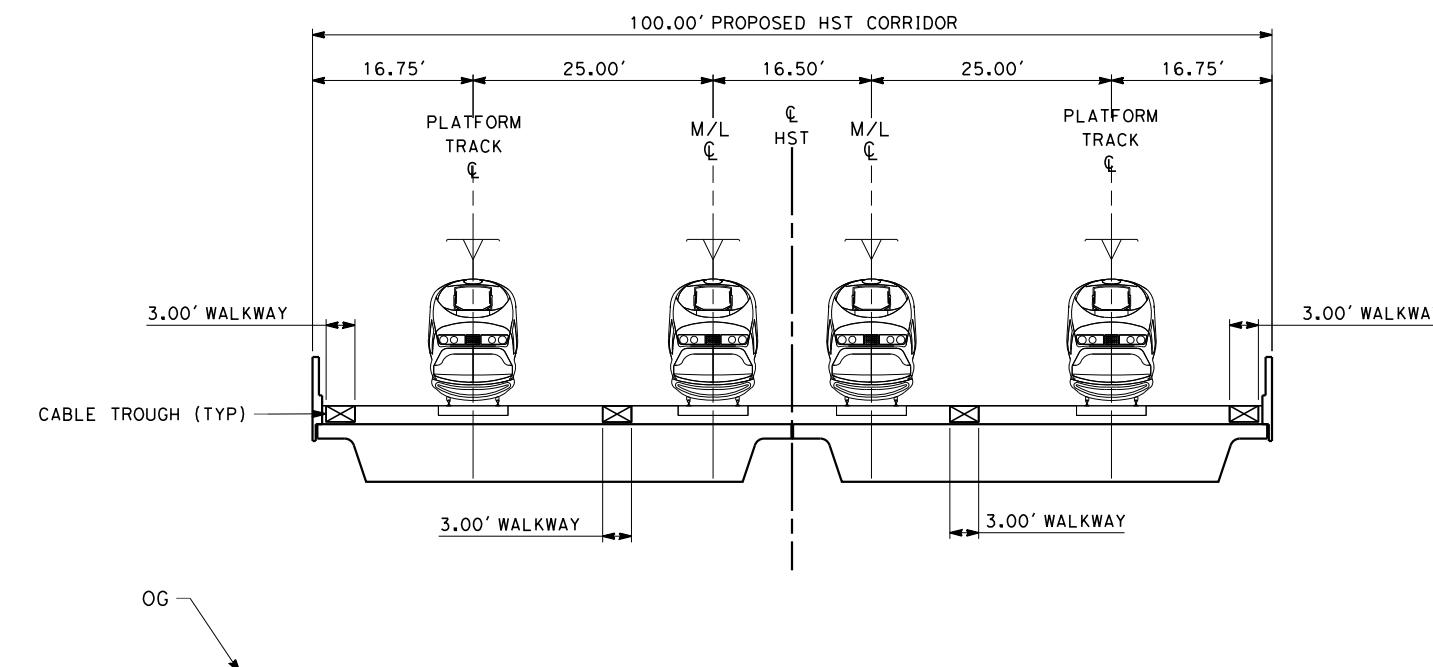


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
TYPICAL SECTIONS**



SECTION 1

TWIN TRACK AT GRADE 100FT ROW ADJACENT TO UPRR
 STA 257+25 THROUGH STA 278+77
 STA 279+92 THROUGH STA 280+20
 STA 294+30 THROUGH STA 295+05
 STA 313+25 THROUGH STA 317+25



SECTION 2

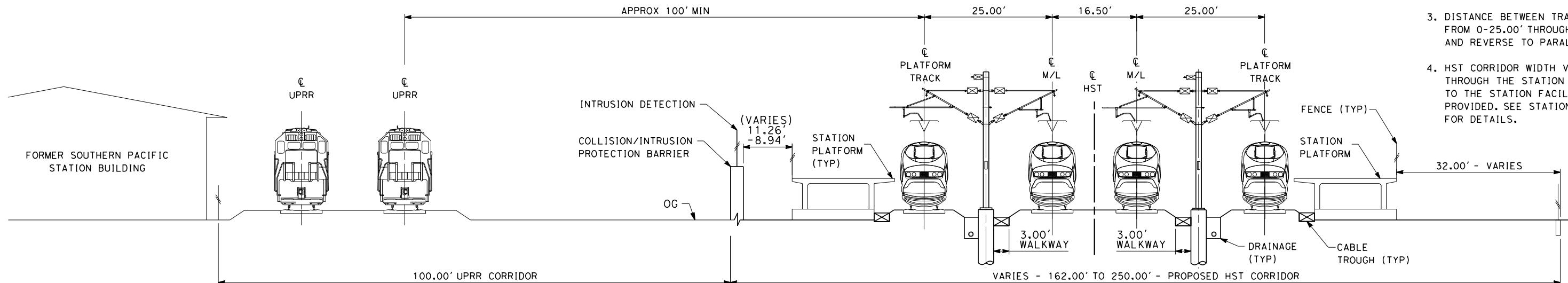
4 TRACK - BRIDGE STRUCTURE
 STA 278+77 THROUGH STA 279+92



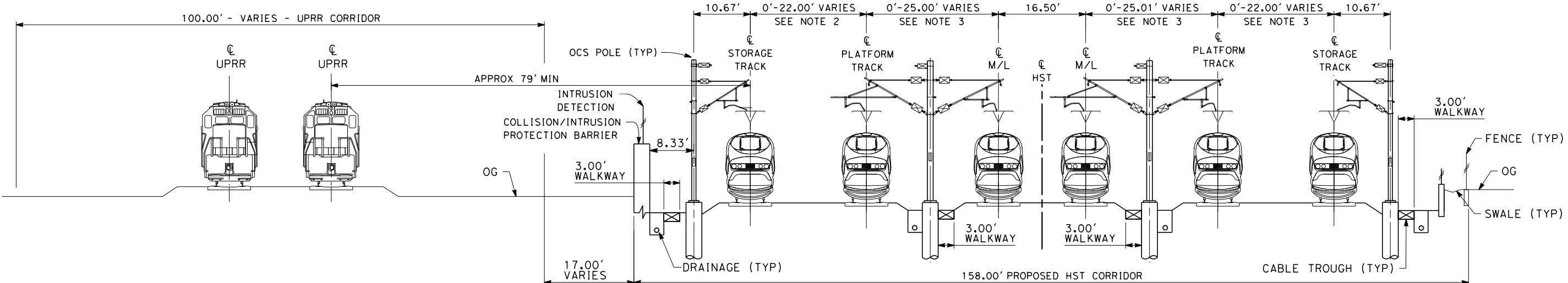
DESIGNED BY K. SEYMOUR	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY P. TONKIN	-	CALIFORNIA HIGH-SPEED TRAIN	FRESNO SUBSECTION	DRAWING NO. CB3010
CHECKED BY D. HUNT	NOT FOR CONSTRUCTION		ALIGNMENT F1	SCALE AS SHOWN
IN CHARGE R. COFFIN			CROSS SECTIONS	SHEET NO. 18 OF 23
DATE 02/15/12				
REV	DATE	BY	CHK	APP
			DESCRIPTION	

NOTES:

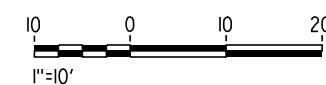
1. TRACKFORM SHOWN IS INDICATIVE
2. DISTANCE BETWEEN TRACKS VARIES FROM 0-22.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.
3. DISTANCE BETWEEN TRACKS VARIES FROM 0-25.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.
4. HST CORRIDOR WIDTH VARIES THROUGH THE STATION ACCORDING TO THE STATION FACILITIES PROVIDED. SEE STATION DRAWINGS FOR DETAILS.

**SECTION 3**

4 TRACK - AT GRADE STATION PLATFORMS
STA 280+20 THROUGH STA 294+30

**SECTION 4**

6 TRACK - AT GRADE STORAGE TRACKS
STA 295+05 THROUGH STA 313+25



DESIGNED BY K. SEYMOUR	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY P. TONKIN	-	CALIFORNIA HIGH-SPEED TRAIN	FRESNO SUBSECTION	DRAWING NO. CB3011
CHECKED BY D. HUNT	NOT FOR CONSTRUCTION		ALIGNMENT F1	SCALE AS SHOWN
IN CHARGE R. COFFIN			CROSS SECTIONS	SHEET NO. 19 OF 23
DATE 02/15/12	DESCRIPTION			
REV	DATE	BY	CHK	APP

NOTES:

1. THE S1 LINE IS OFFSET TO S2 LINE BY 16.50 FEET.

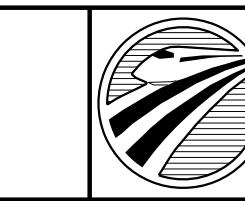
TRACK GEOMETRY DATA ALONG SOUTHBOUND(S2) TRACK CENTERLINE													
CURVE NO.	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	DISTANCE (FT)	R (FT)	Lc (FT)	SPIRAL TYPE	Ls (FT)	Ea (in)	Eu (in)	V (MPH)
101	POB	S10535+00.00	2184645.09	6297590.88	S51° 24'12"E	919.91							250
	TS	S10544+19.91	2184071.22	6298309.85					HALF SINE	1200.00			250
	SC	S10556+19.91	2183320.23	6299245.81			70000.00	1202.39			3.00	0.57	250
	CS	S10568+22.31	2182554.13	6300172.52					HALF SINE	1200.00			250
102	ST	S10580+22.31	2181776.12	6301086.14	S49° 26'13"E	1333.20							250
	TS	S10593+55.51	2180909.17	6302098.96					HALF SINE	2000.00			250
	SC	S10613+55.51	2179592.62	6303604.36			28000.00	2109.81			6.00	2.93	250
	CS	S10634+65.32	2178107.16	6305101.90					HALF SINE	2000.00			250
103	ST	S10654+65.32	2176612.48	6306430.60	S41° 01'38"E	24843.38							250
	TS	S10903+08.70	2157870.69	6322738.24					HALF SINE	1000.00			220
	SC	S10913+08.70	2157114.93	6323393.08			71400.00	1002.81			1.50	1.21	220
	CS	S10923+11.52	2156349.26	6324040.66					HALF SINE	1000.00			220
104	SS	S10933+11.52	2155578.08	6324677.27	S41° 09'29"E	921.99			HALF SINE	1000.00			220
	SC	S10943+11.52	2154806.89	6325313.88									220
	CS	S10954+78.01	2153917.10	6326068.18			71416.50	1166.50			1.50	1.21	220
	ST	S10964+78.01	2153162.84	6326724.75					HALF SINE	1000.00			220
	POT	S10974+00.00	2154806.89	6335459.98									250

REV	DATE	BY	CHK	APP	DESCRIPTION	02/01/2012

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
02/01/2012

PROPOSED
PRELIMINARY
DESIGN
**NOT FOR
CONSTRUCTION**

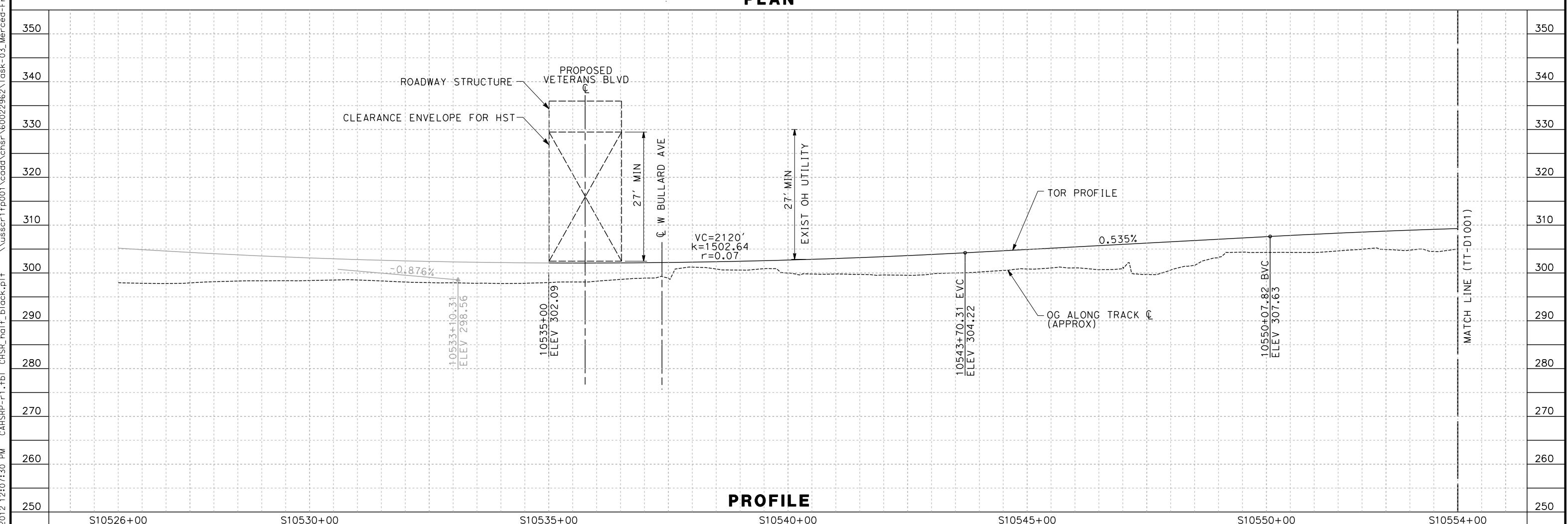
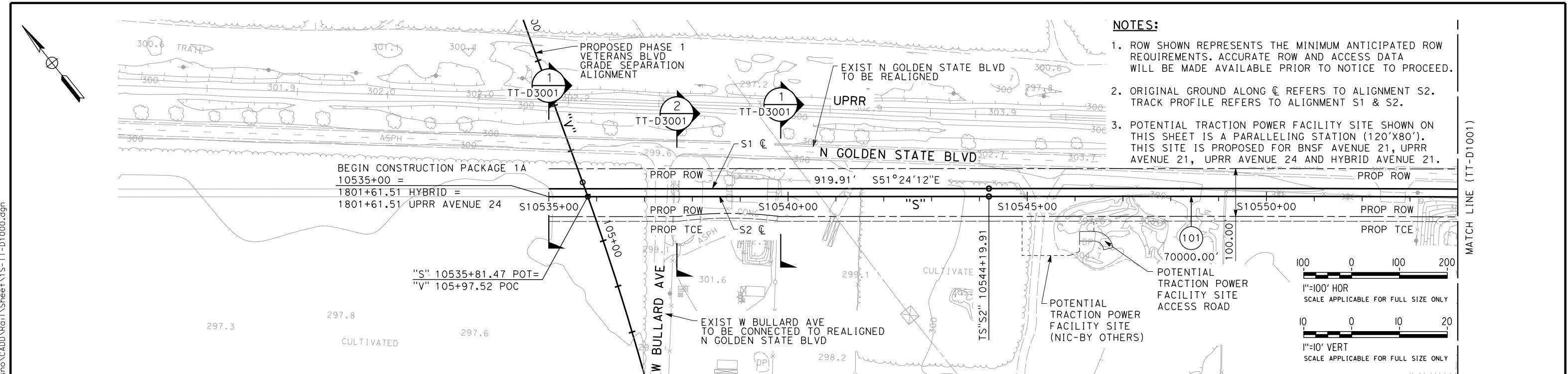
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
HORIZONTAL ALIGNMENT DATA

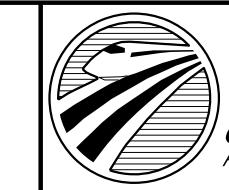
CONTRACT NO.
DRAWING NO.
TT-D0001
SCALE
AS SHOWN
SHEET NO.



sheldsa 2/13

**PROPOSED
PRELIMINARY
DESIGN

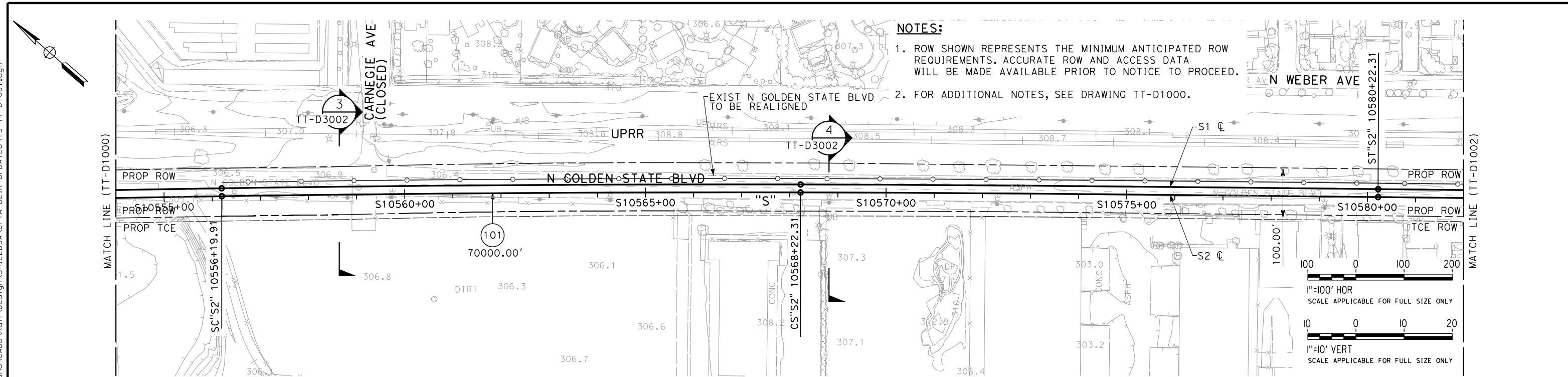
NOT FOR
CONSTRUCTION**



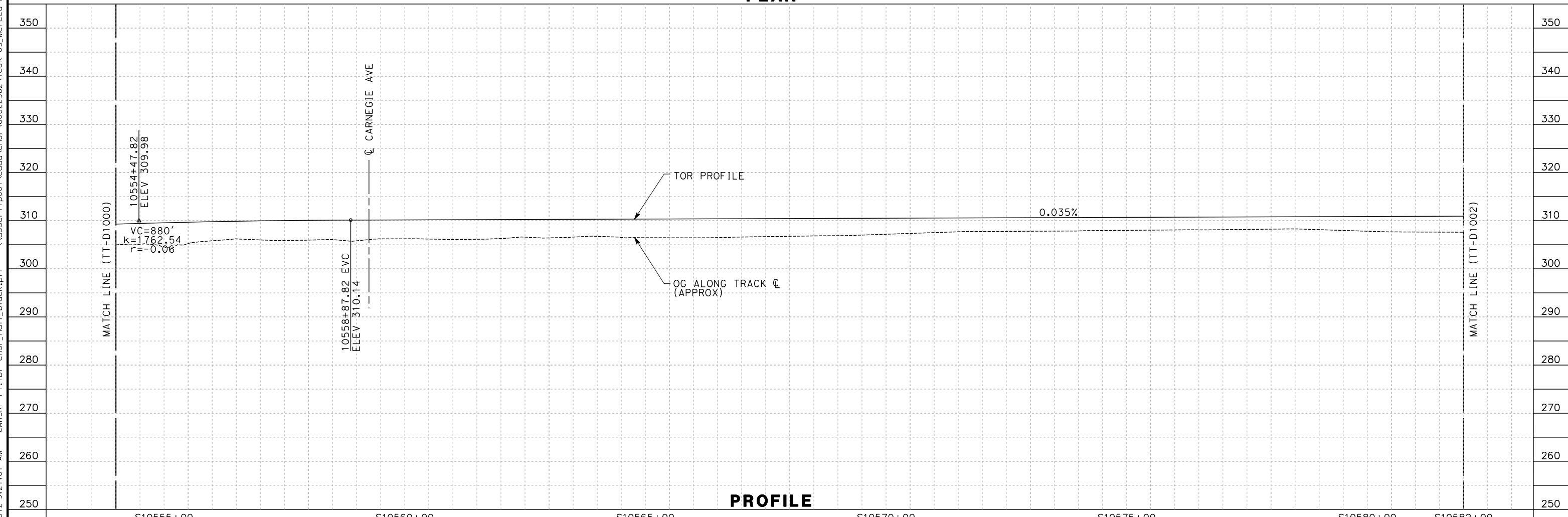
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10535+00 TO 10554+00**

CONTRACT NO.
DRAWING NO.
TT-D1000
SCALE
AS SHOWN
HEET NO.



PLAN



PROFILE

shieldsa 2/22/20

ST0555+00					ST0560+00	
REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY A. SHIELDS
						DRAWN BY H. SULLIVAN
						CHECKED BY A. BOONE
						IN CHARGE A. BOONE
						DATE 02/01/2012

**PROPOSED
PRELIMINARY
DESIGN

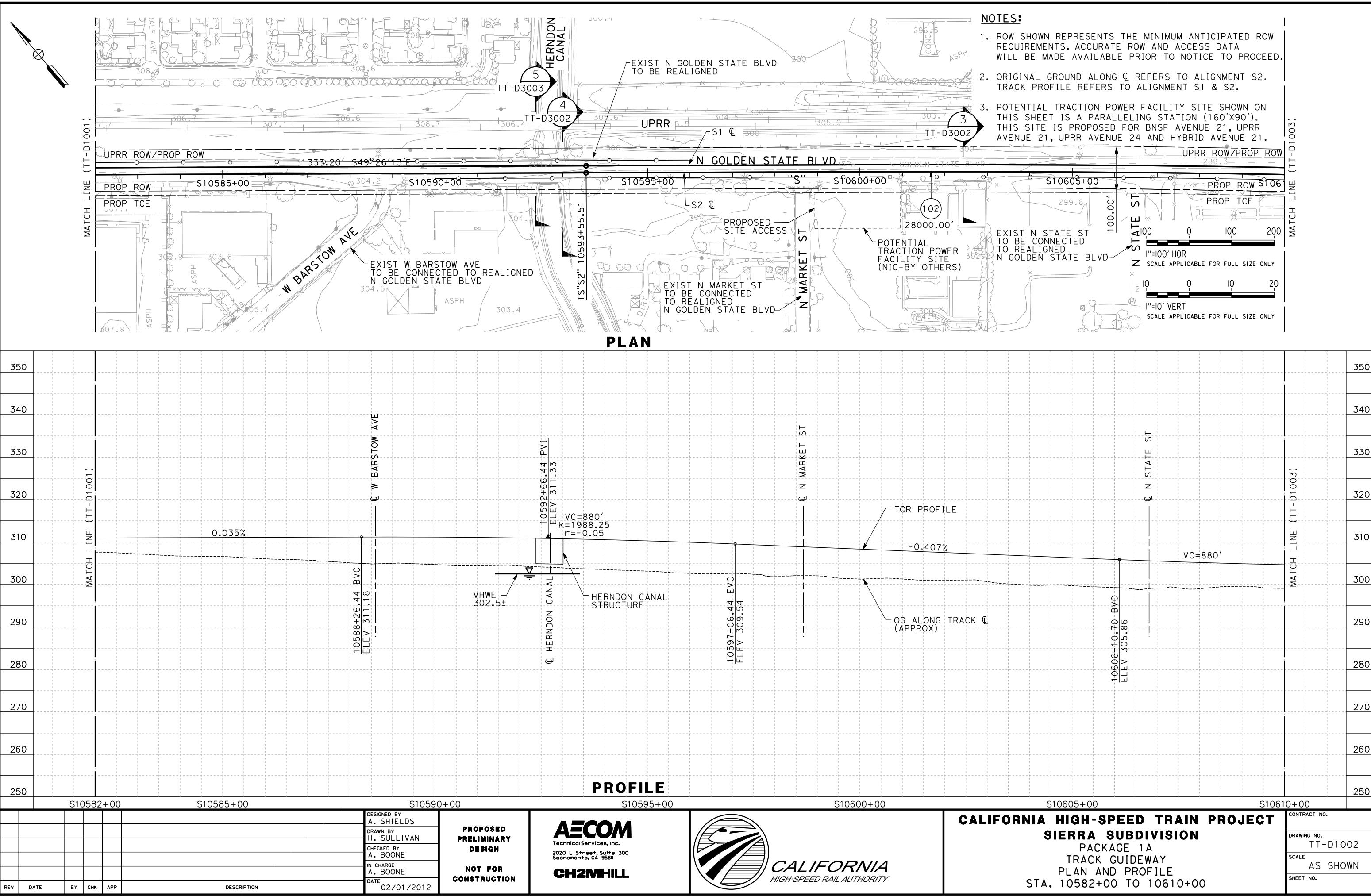
NOT FOR
CONSTRUCTION**

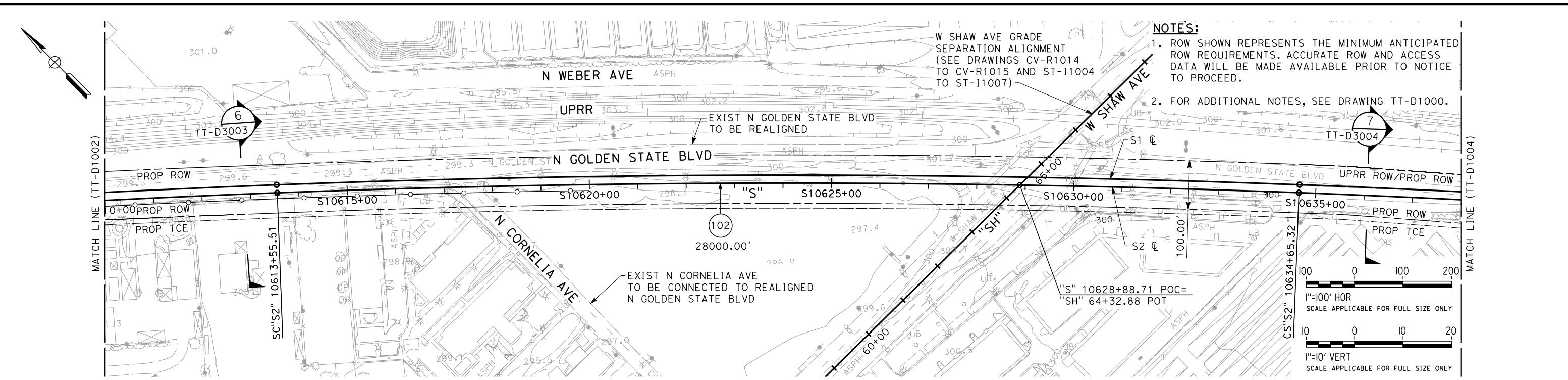


CALIFORNIA HIGH-SPEED RAIL AUTHORITY

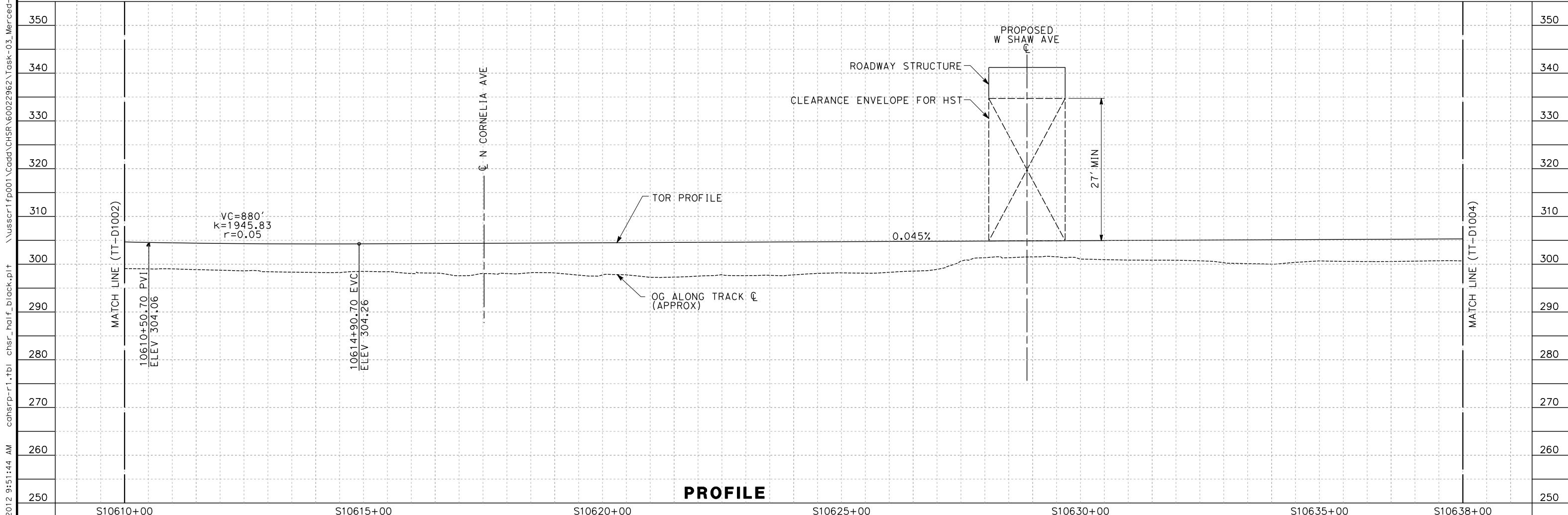
CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10554+00 TO 10582+00

CONTRACT NO.
DRAWING NO.
TT-D1001
SCALE
AS SHOWN
HEET NO.





PLAN

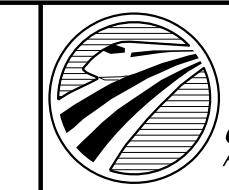


PROFILE

shields a 3/24/2

**PROPOSED
PRELIMINAR
DESIGN**

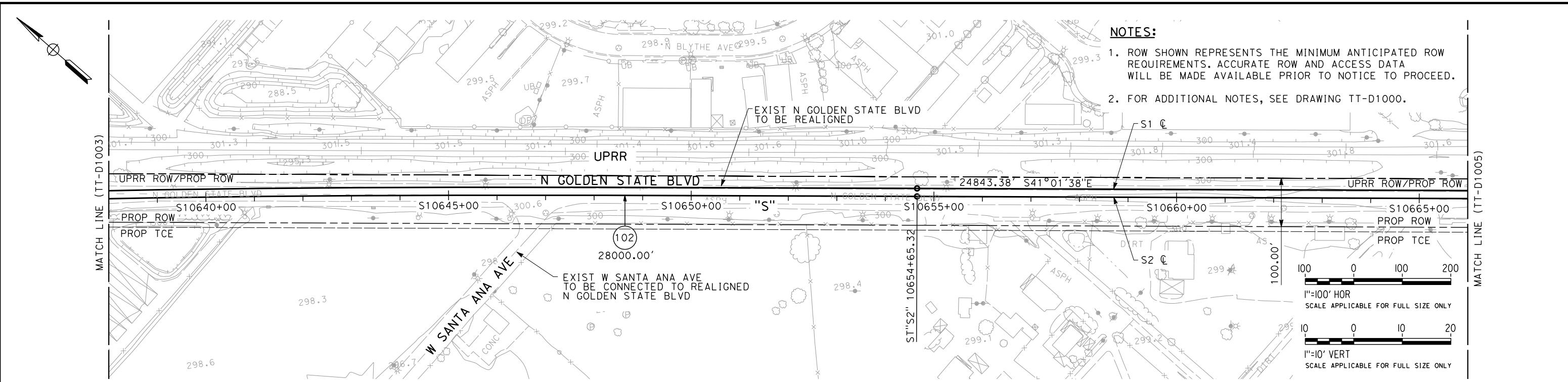
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



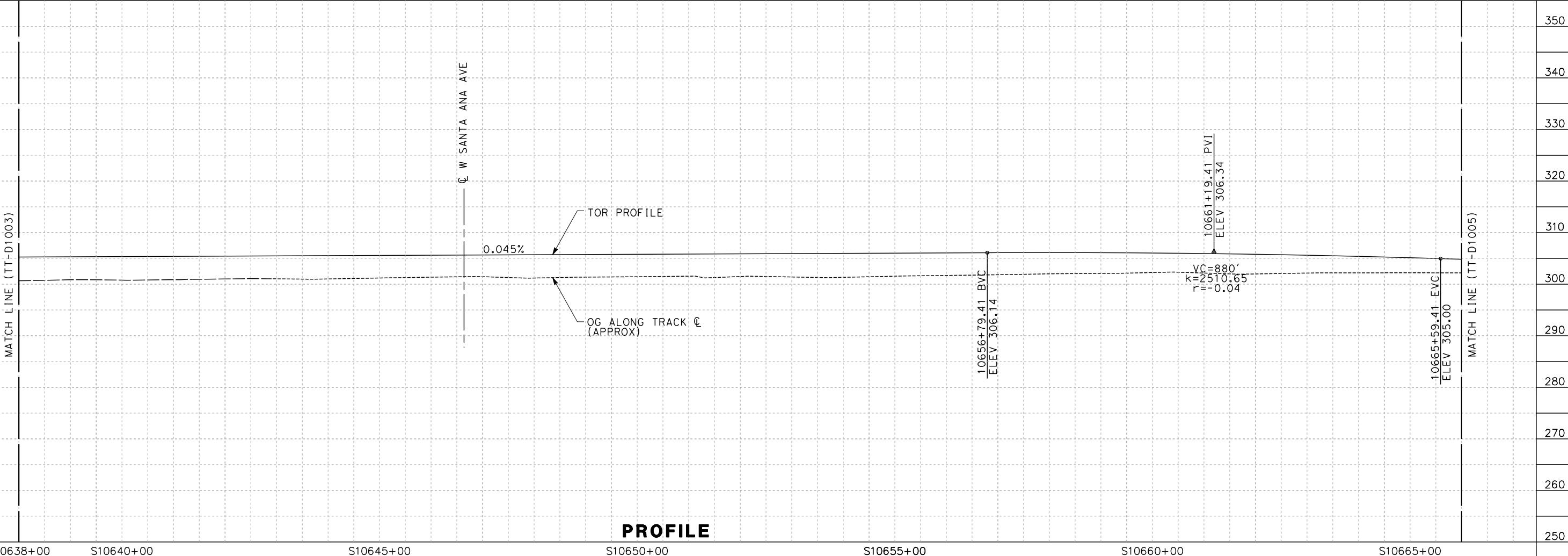
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10610+00 TO 10638+00

TRACT NO.
AWING NO.
TT-D1003
ALE
AS SHOWN
ET NO.



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/08/11

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
12/08/11

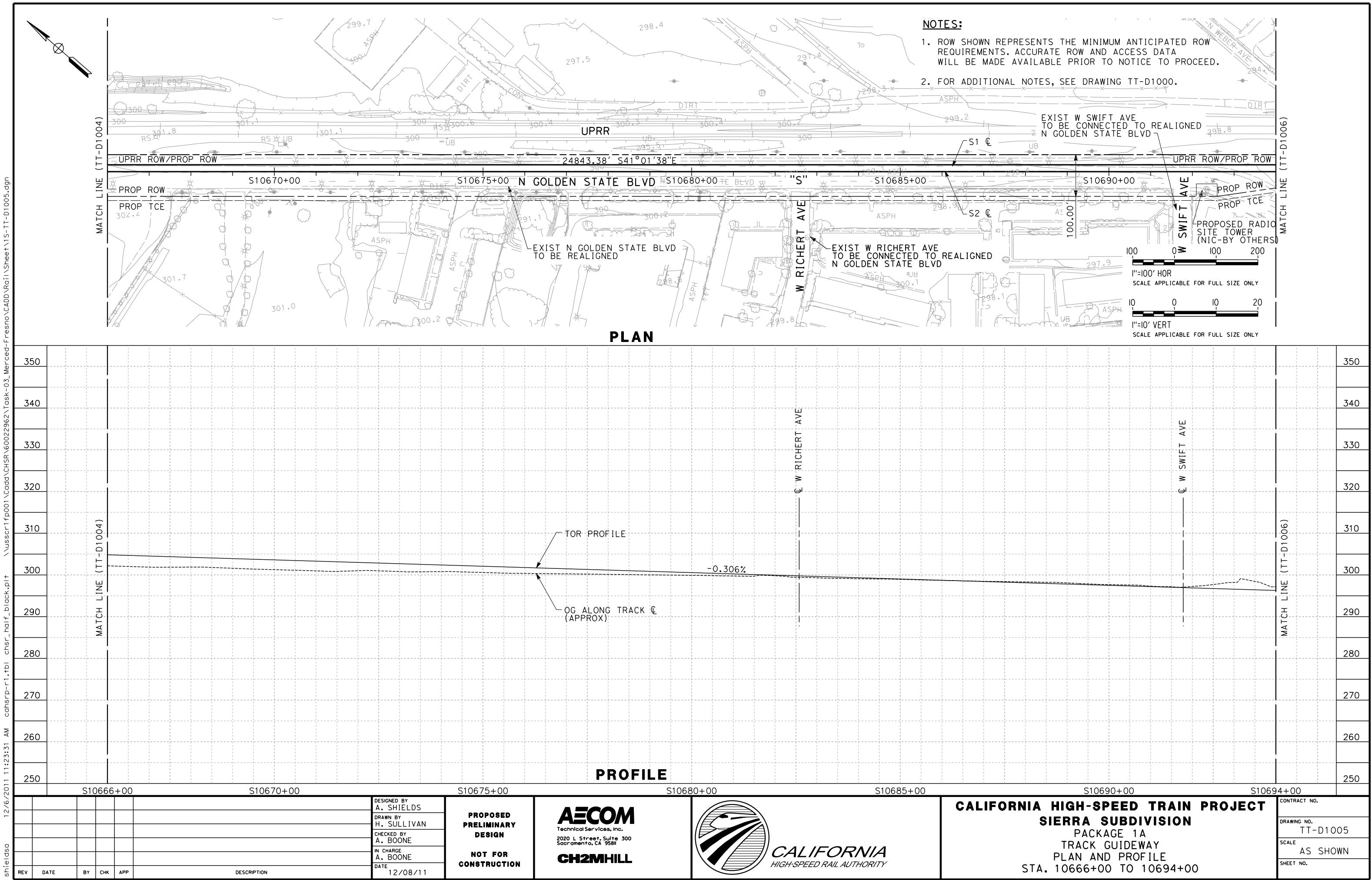
PROPOSED
PRELIMINARY
DESIGN
NOT FOR
CONSTRUCTION

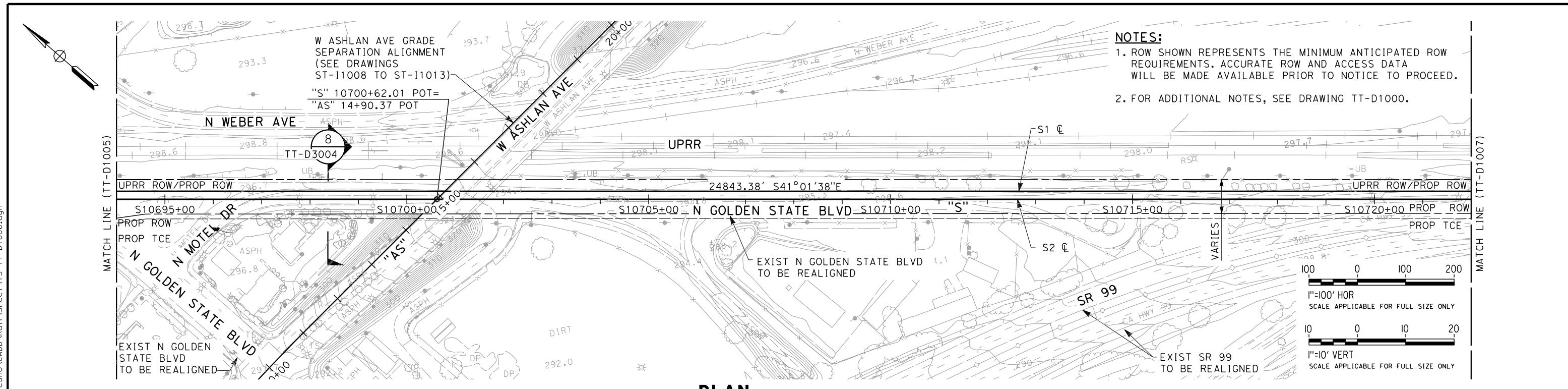
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



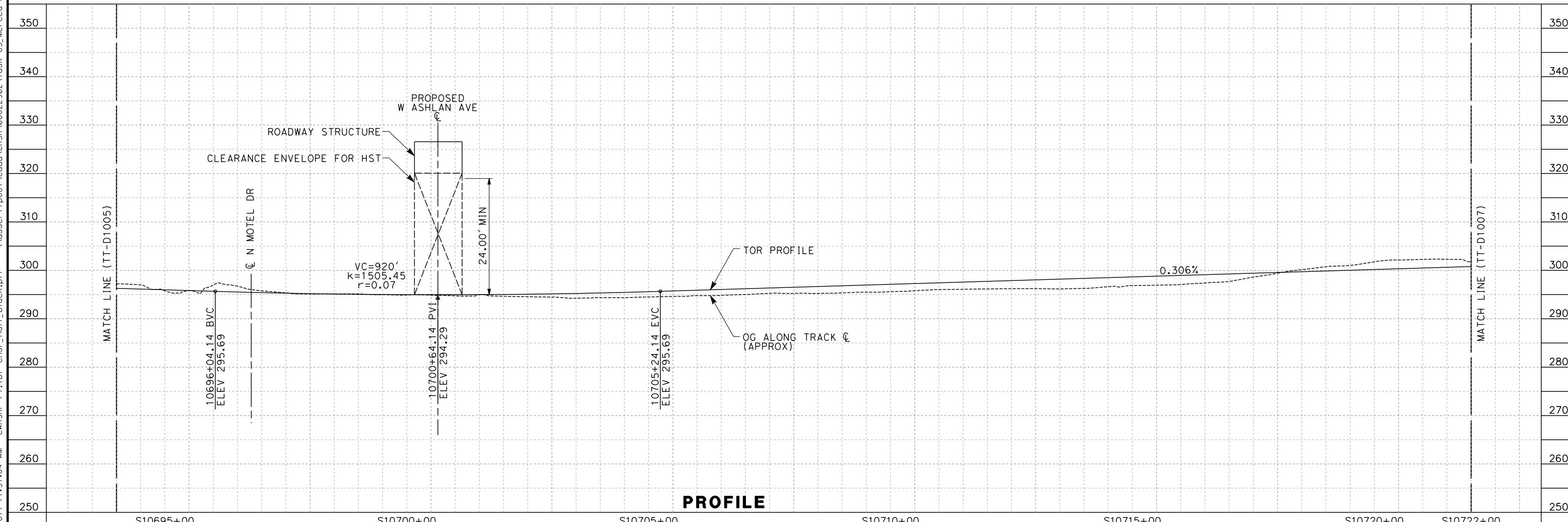
CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10638+00 TO 10666+00

CONTRACT NO.
DRAWING NO.
TT-D1004
SCALE
AS SHOWN
SHEET NO.



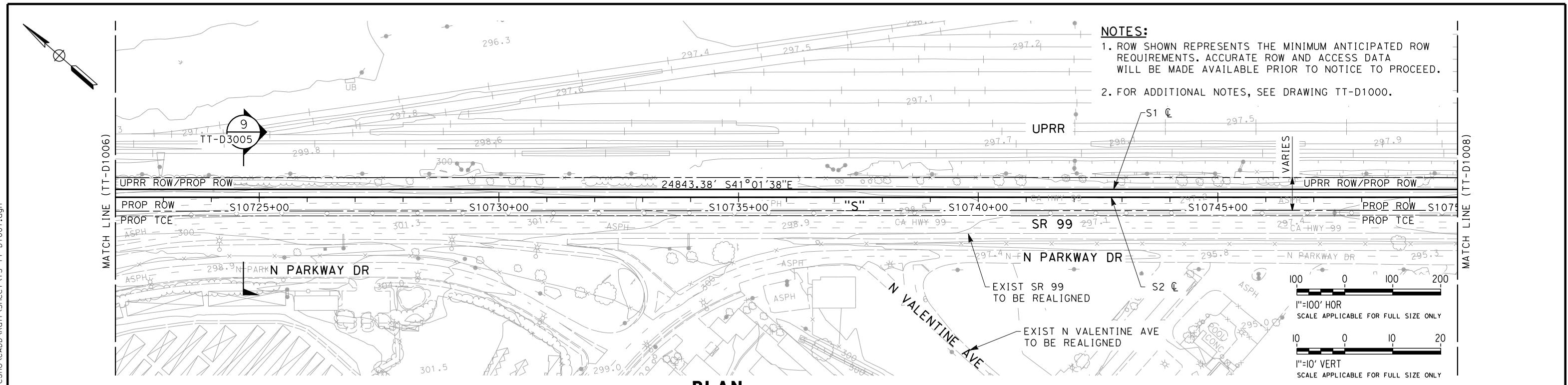


PLAN

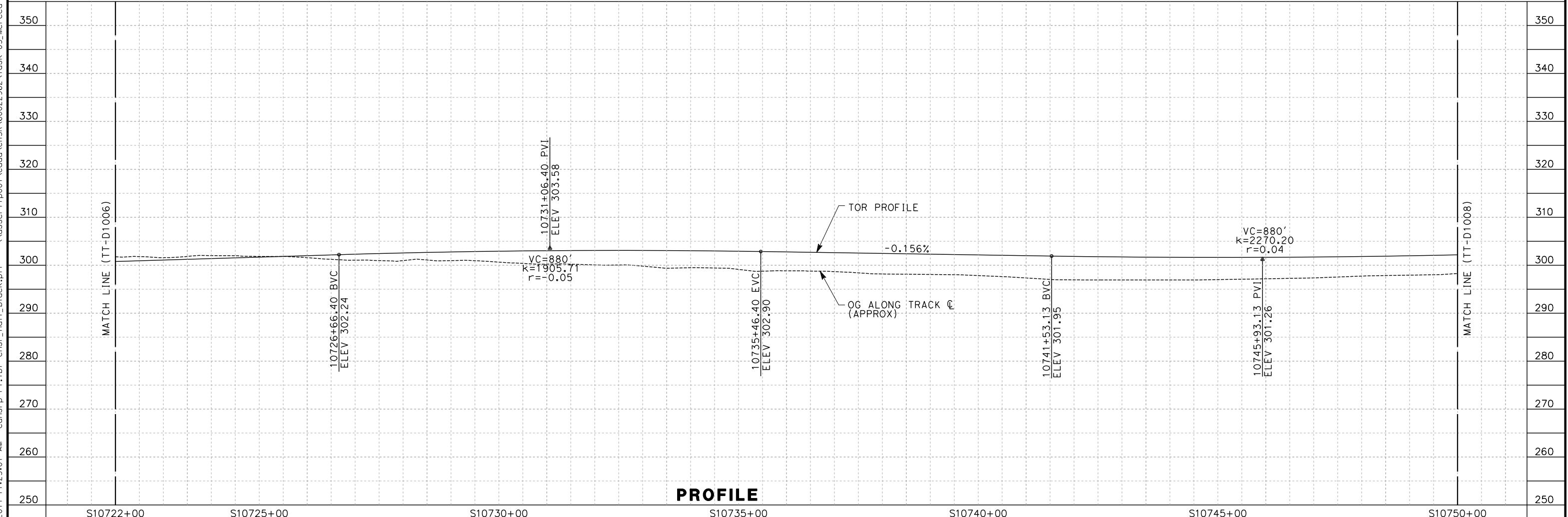


PROFILE

shieldsa 12/6



PLAN

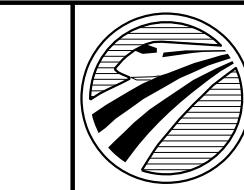


PROFILE

shieldsa 12/6/.

DESIGNED
A. SH
DRAWN BY
H. SU
CHECKED
A. BO
IN CHARGE
A. BO
DATE
12

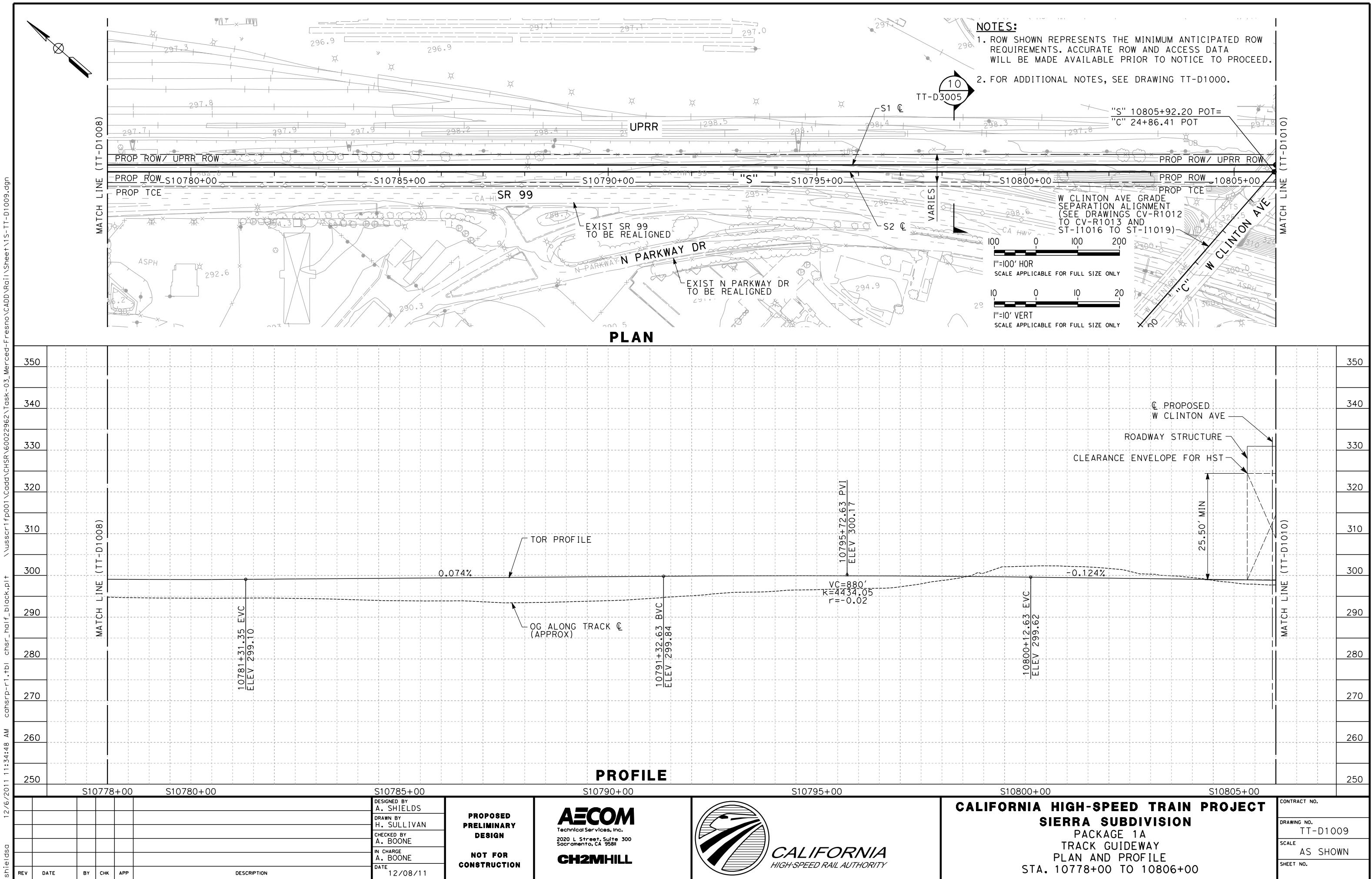
**PROPOSED
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DESIGN**

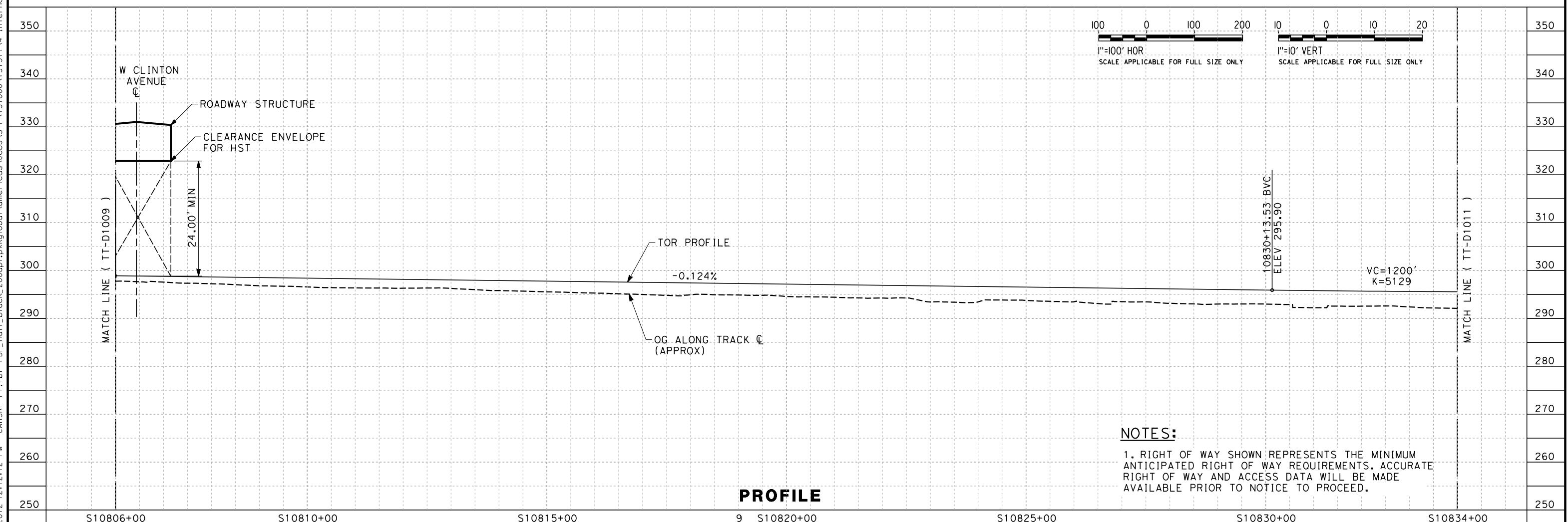
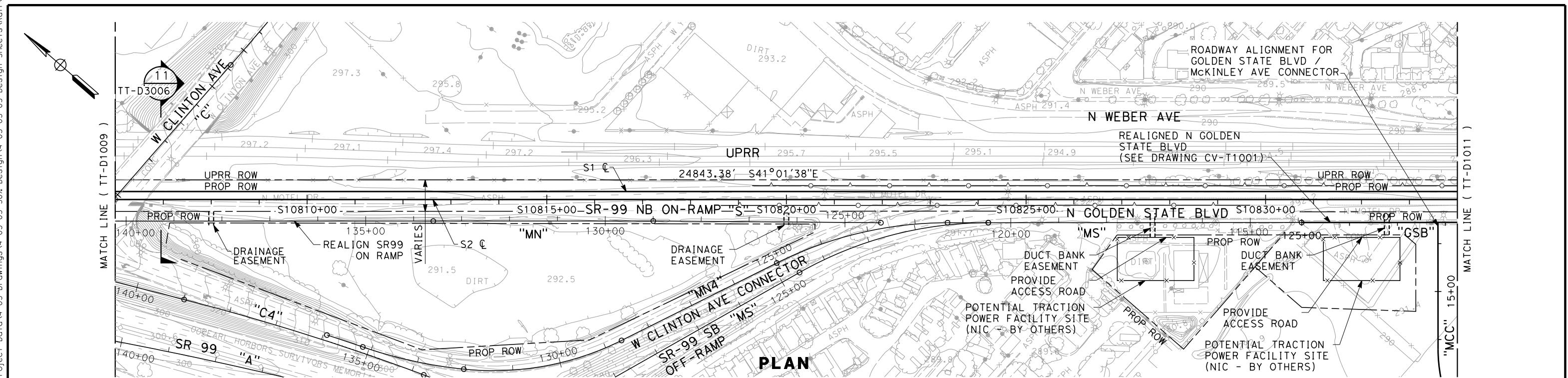


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10722+00 TO 10750+00**

CONTRACT NO.
DRAWING NO.
TT-D1007
SCALE
AS SHOWN
SHEET NO.





NOTES:

1. RIGHT OF WAY SHOWN REPRESENTS THE MINIMUM ANTICIPATED RIGHT OF WAY REQUIREMENTS. ACCURATE RIGHT OF WAY AND ACCESS DATA WILL BE MADE AVAILABLE PRIOR TO NOTICE TO PROCEED.

PROFILE

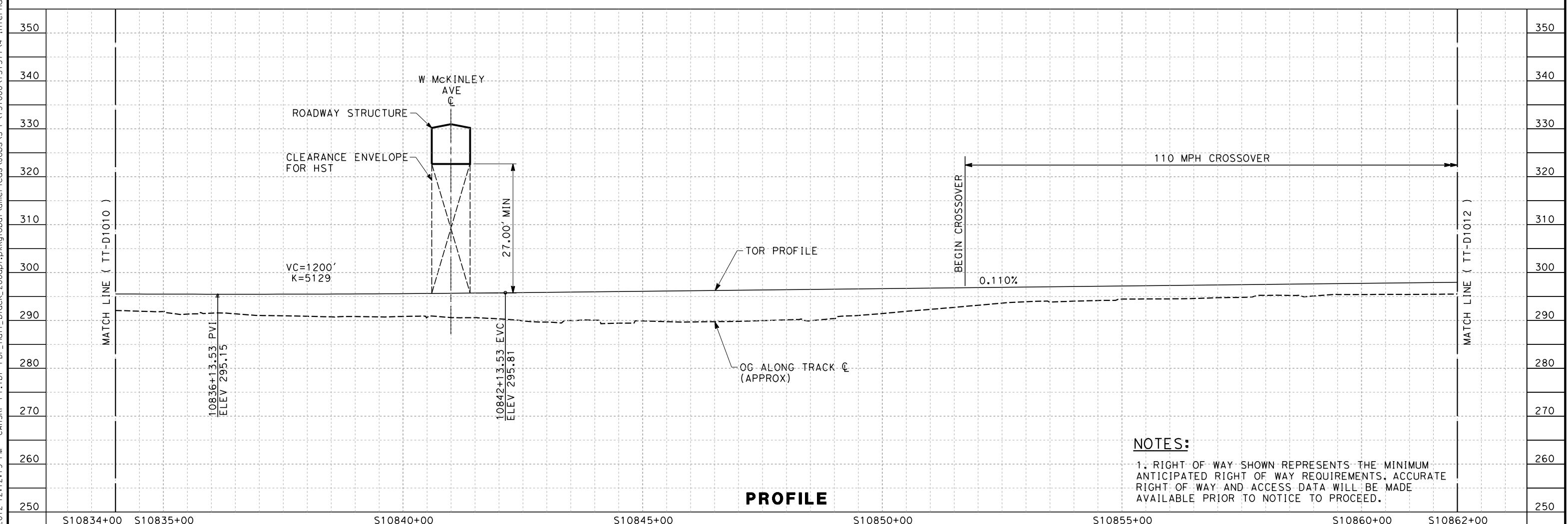
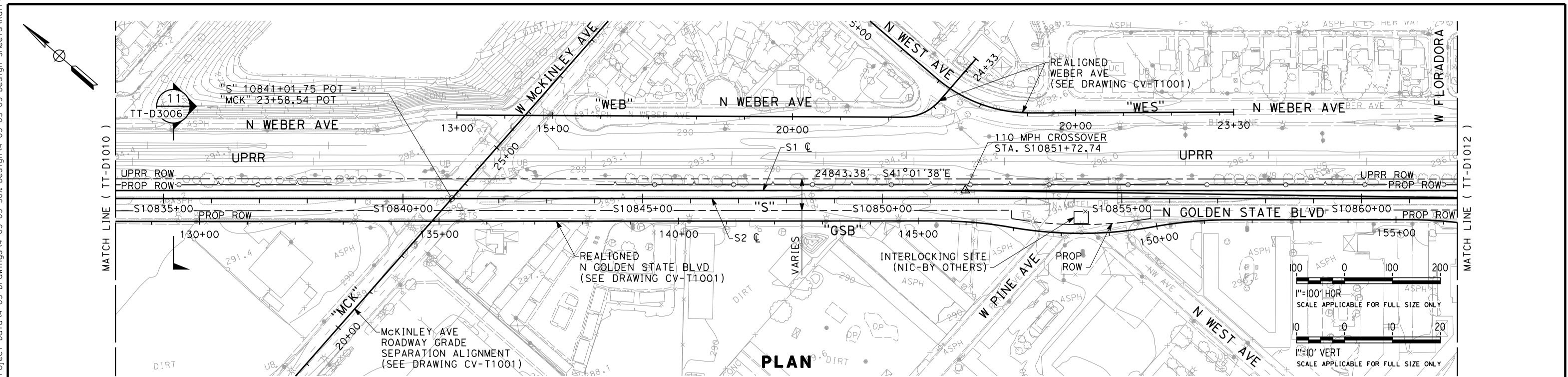
ST0806+00					ST0810+00					ST08	
										DESIGNED BY K. SEYMOUR	PRE PRE D NO CONS
										DRAWN BY P. TONKIN	
										CHECKED BY D. HUNT	
										IN CHARGE R. COFFIN	
REV	DATE	BY	CHK	APP	DESCRIPTION					DATE	
										02/21/12	



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION**

SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10806+00 TO STA. 10834+00

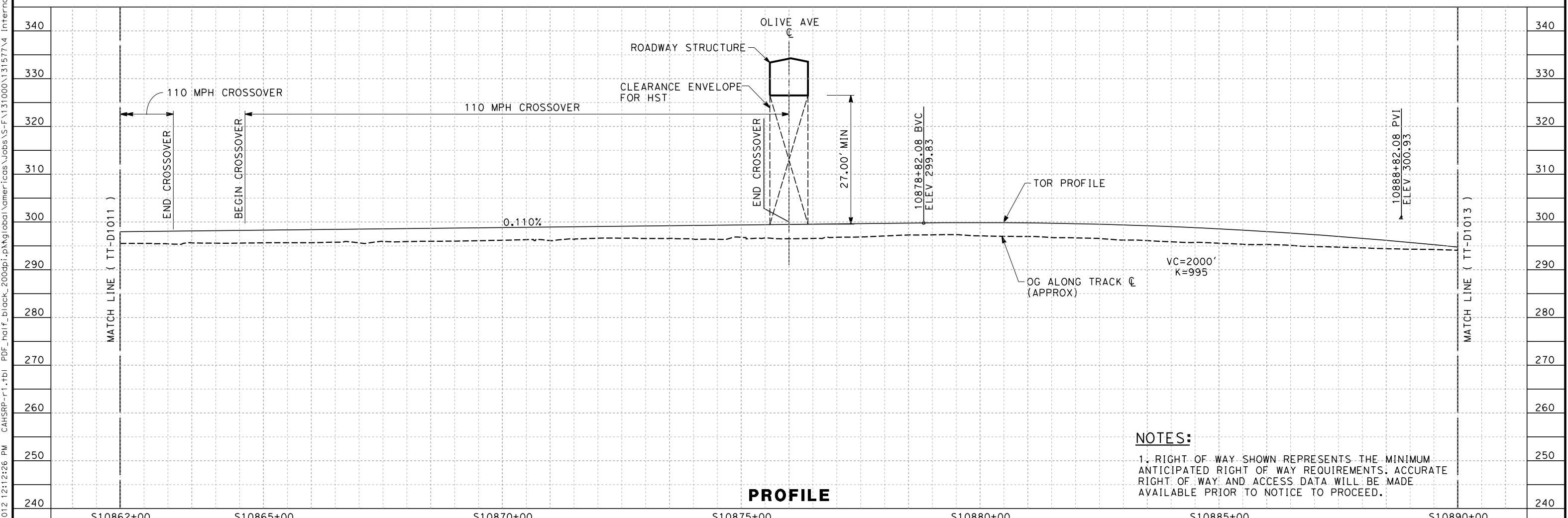
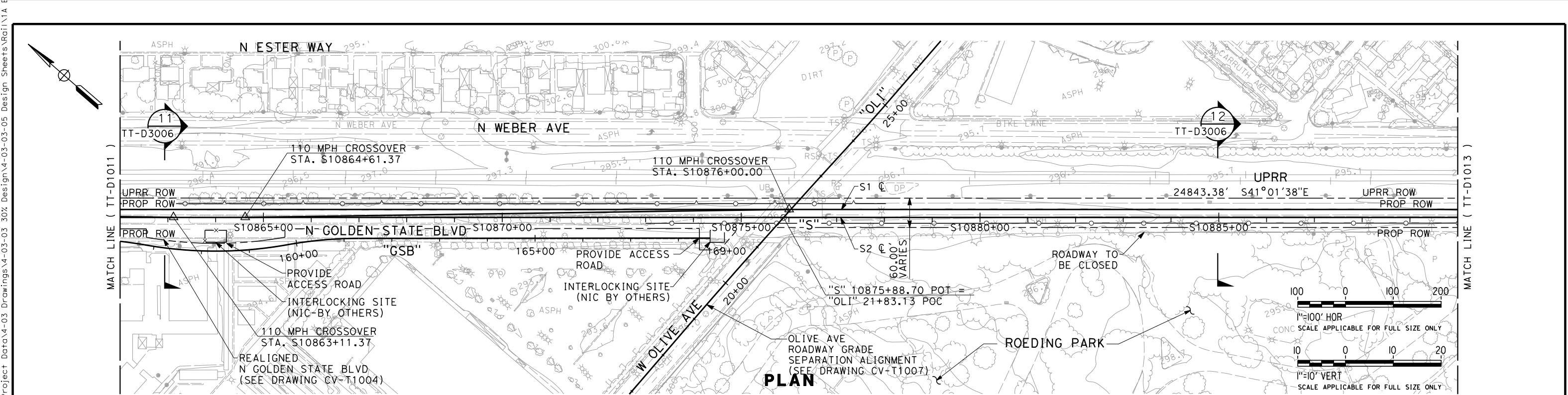
CONTRACT NO.
DRAWING NO.
TT-D1010
SCALE
AS SHOWN
SHEET NO.



1. RIGHT OF WAY SHOWN REPRESENTS THE MINIMUM ANTICIPATED RIGHT OF WAY REQUIREMENTS. ACCURATE RIGHT OF WAY AND ACCESS DATA WILL BE MADE AVAILABLE PRIOR TO NOTICE TO PROCEED.

1. RIGHT OF WAY SHOWN REPRESENTS THE MINIMUM ANTICIPATED RIGHT OF WAY REQUIREMENTS. ACCURATE RIGHT OF WAY AND ACCESS DATA WILL BE MADE AVAILABLE PRIOR TO NOTICE TO PROCEED.

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10834+00 TO STA. 10862+00**



RAILWAY DESIGN SHEET TT-D1011

2/22/2012 12:12:26 PM CAHSRP-r1.tfb PDF_half_black_200dpi.pdf

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 02/21/12

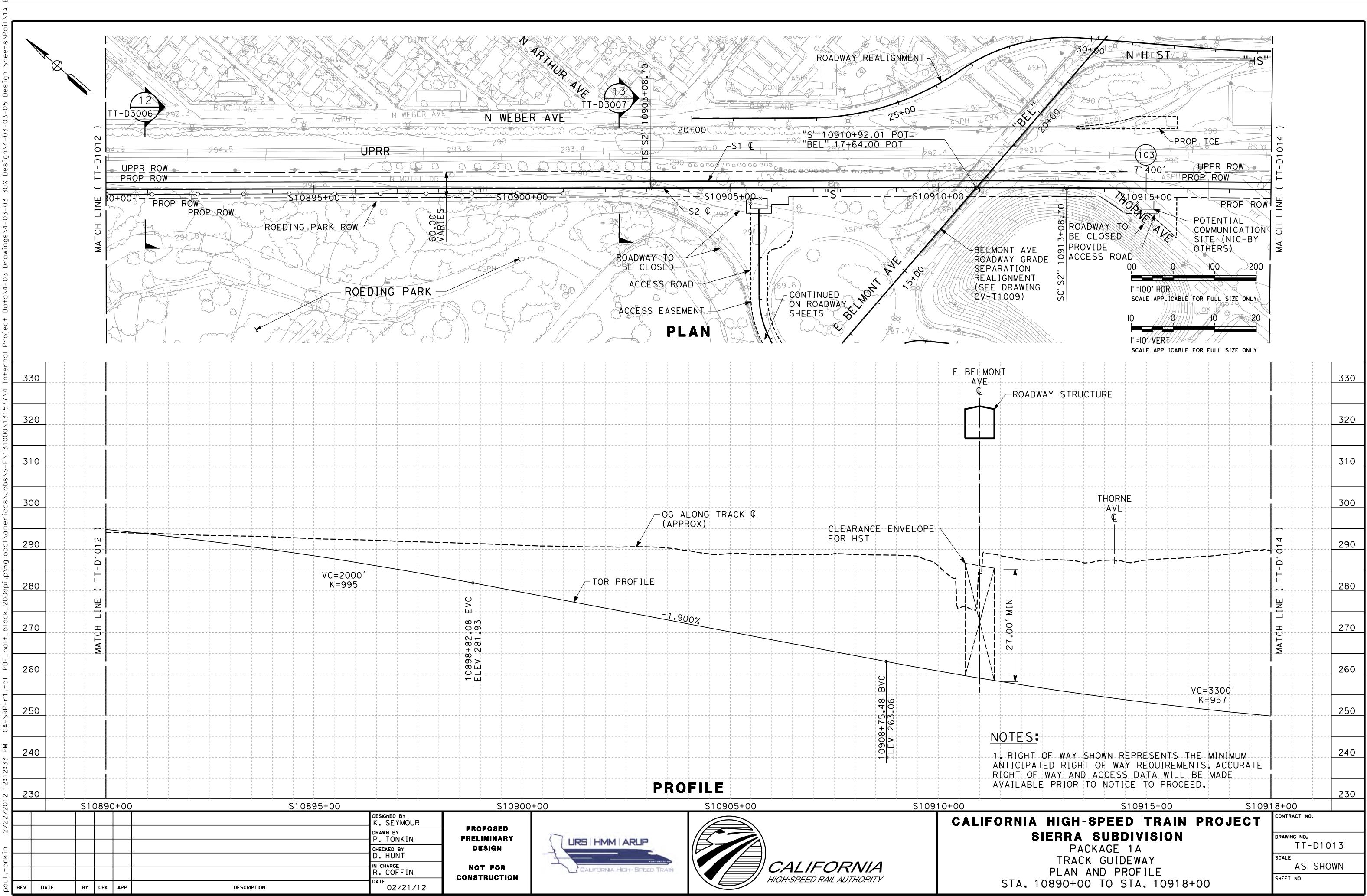
PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

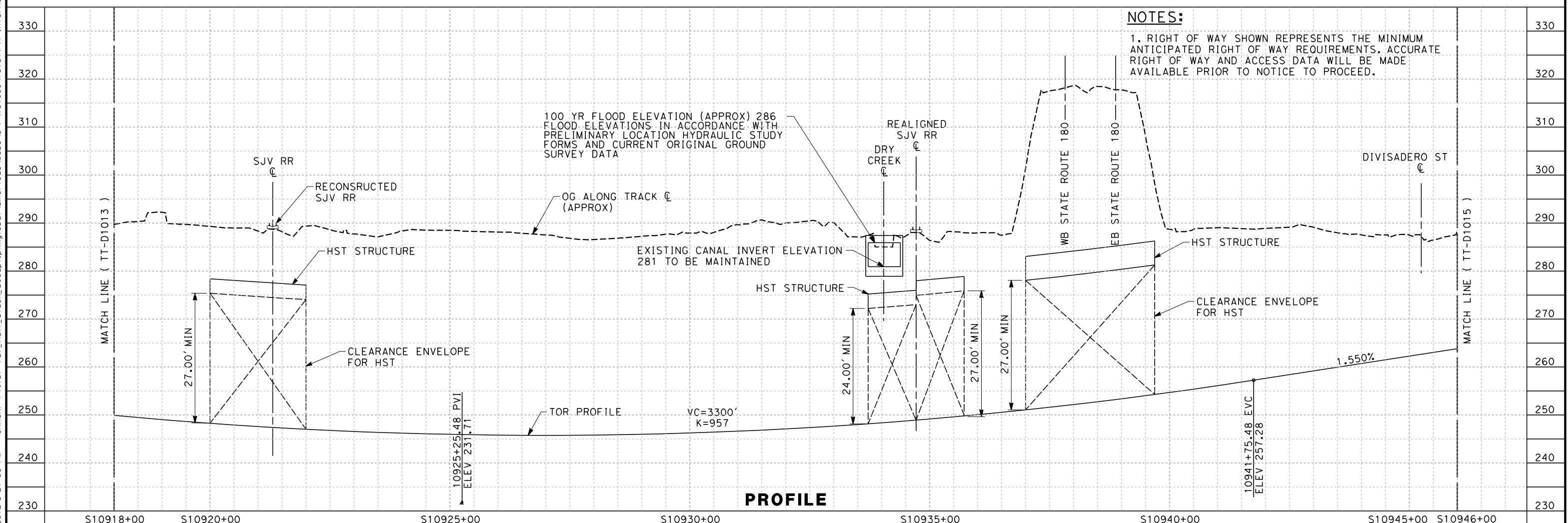
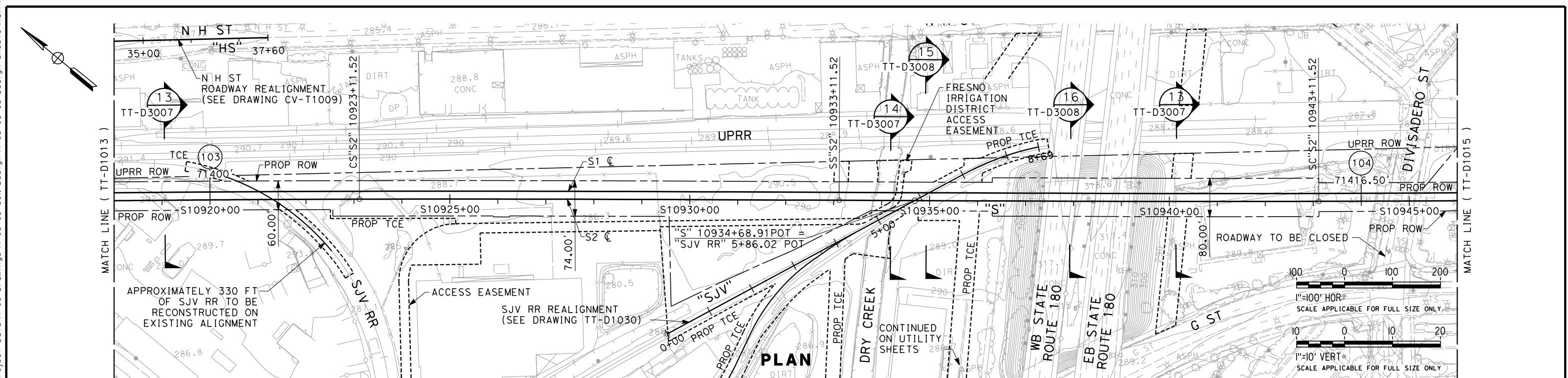
URS | HMM | ARUP CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

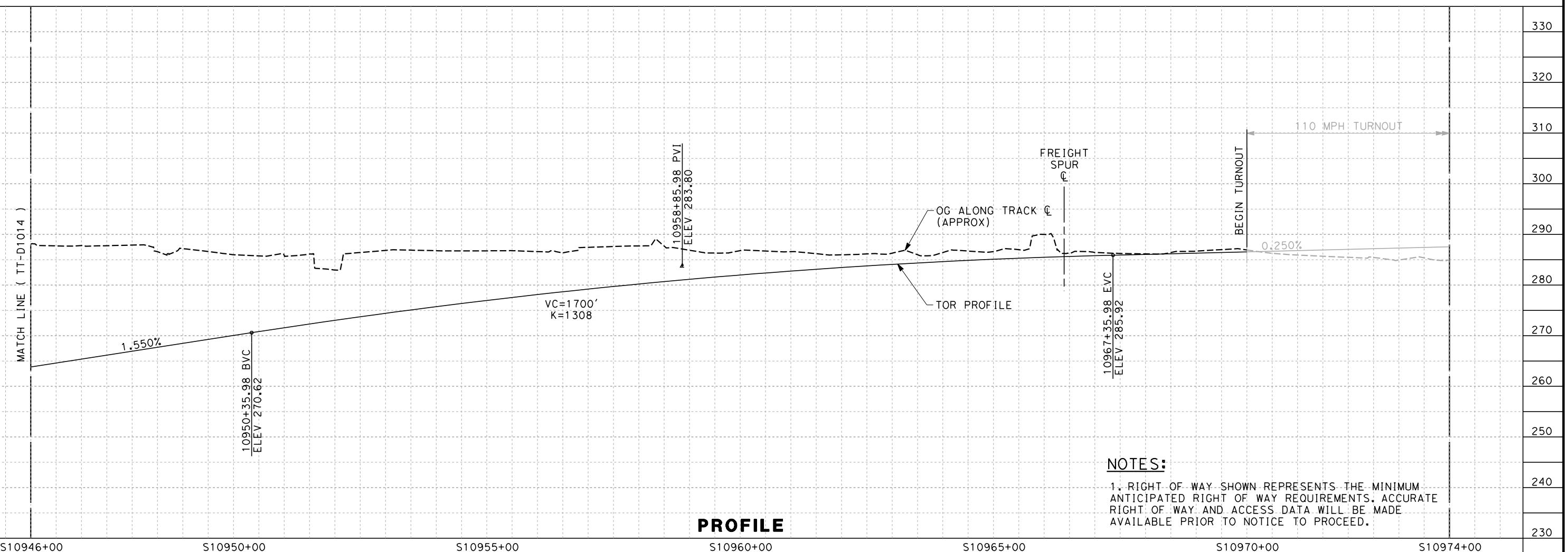
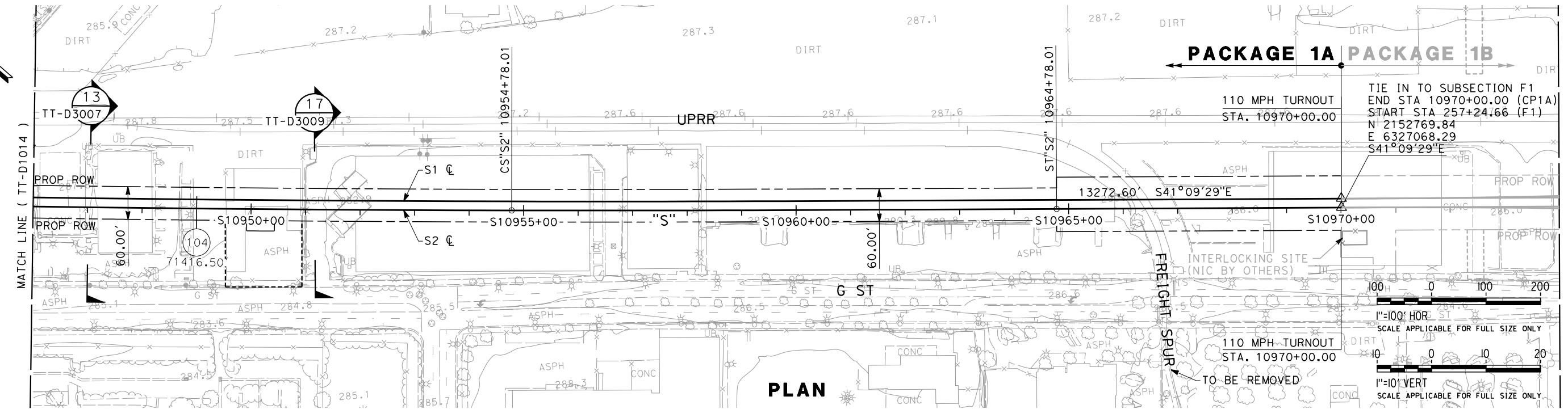
CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION PACKAGE 1A TRACK GUIDEWAY PLAN AND PROFILE STA. 10862+00 TO STA. 10890+00

CONTRACT NO.
DRAWING NO. TT-D1012
SCALE AS SHOWN
SHEET NO.





CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION										CONTRACT NO.
PACKAGE 1A TRACK GUIDEWAY PLAN AND PROFILE										DRAWING NO.
STA. 10918+00 TO STA. 10946+00										SCALE
REV	DATE	BY	CHK	APP	DESCRIPTION	PROPOSED PRELIMINARY DESIGN	NOT FOR CONSTRUCTION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	SHEET NO.
Paul.Tonkin	2/15/2012 5:21:38 PM	CAHSRP-r1.tбл	PDF - half - black	200dpi.p	Internal Project Data\4-03 Drawings\4-03-03 30% Design Sheets\Rail\1A	DESIGNED BY K. SEYMORE DRAWN BY P. TONKIN CHECKED BY D. HUNT IN CHARGE R. COFFIN DATE 02/17/12				TT-D1014



1 BICUT

11. RIGHT OF WAY SHOWN REPRESENTS THE MINIMUM ANTICIPATED RIGHT OF WAY REQUIREMENTS. ACCURATE RIGHT OF WAY AND ACCESS DATA WILL BE MADE AVAILABLE PRIOR TO NOTICE TO PROCEED.

PROFILE

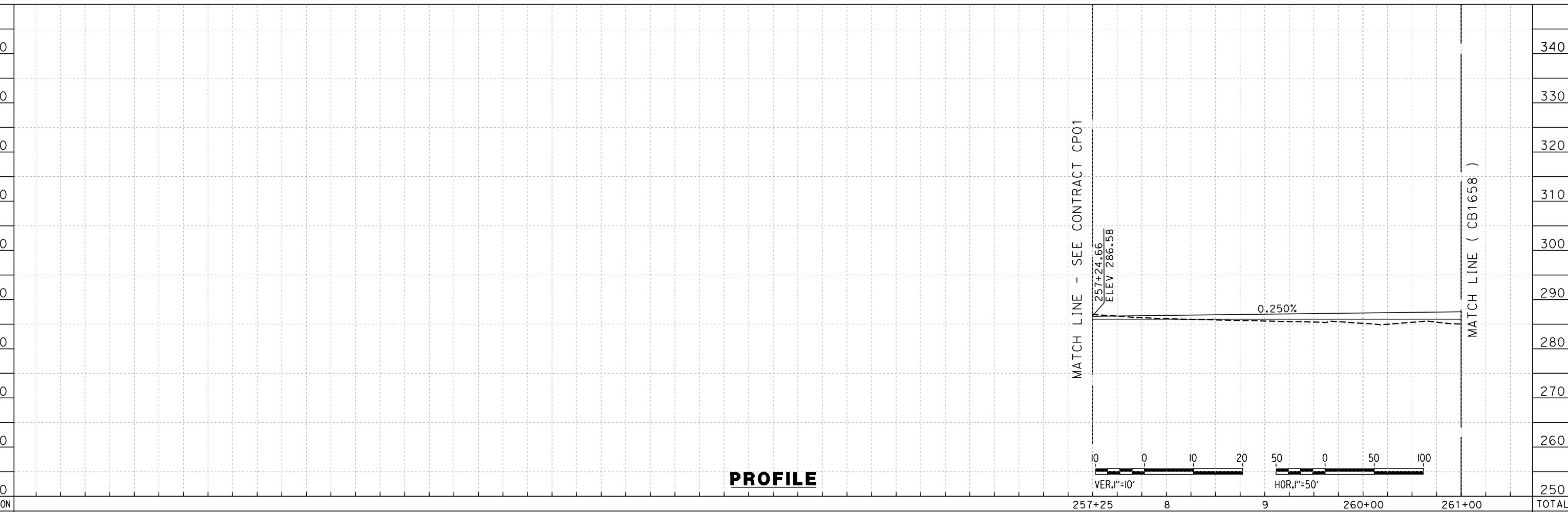
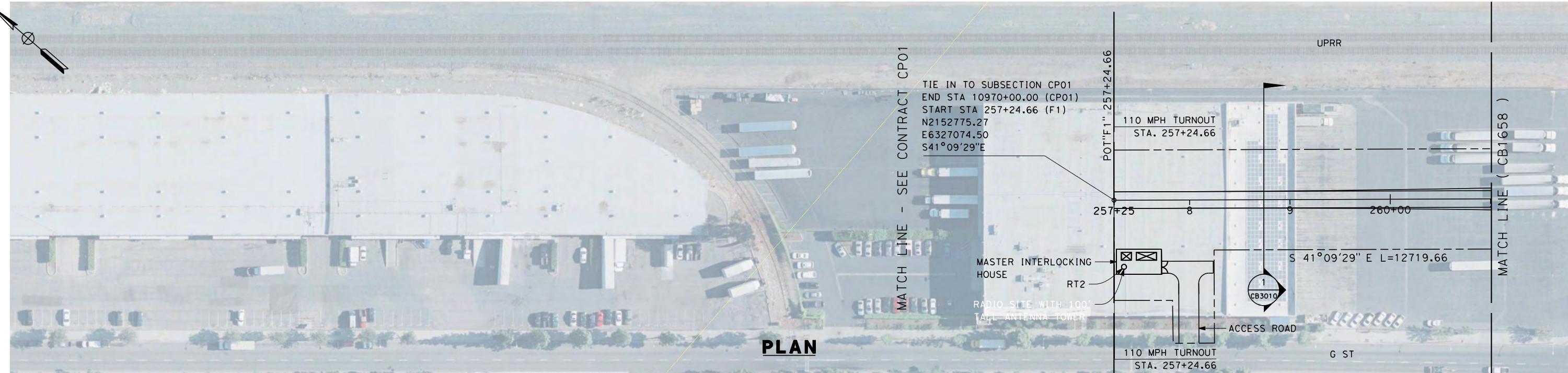
ST0946+00					ST0950+00					ST	
										DESIGNED BY K. SEYMOUR	
										DRAWN BY P. TONKIN	
										CHECKED BY D. HUNT	
										IN CHARGE R. COFFIN	
										DATE 02/21/12	
REV	DATE	BY	CHK	APP	DESCRIPTION					CO	



CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

SIERRA SUBDIVISION
PACKAGE 1A
TRACK GUIDEWAY
PLAN AND PROFILE
STA. 10946+00 TO STA. 10974+00

CONTRACT NO.
DRAWING NO. TT-D1015
SCALE AS SHOWN
HEET NO.



STATION				
CY	Exc			
	Emb			

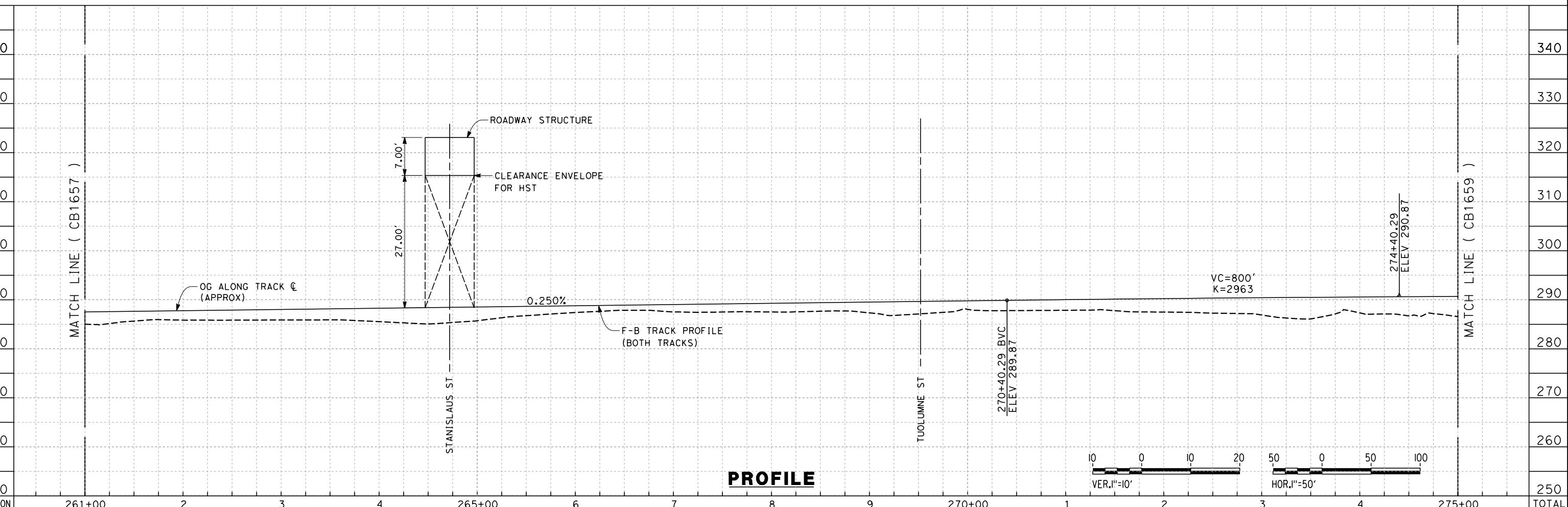
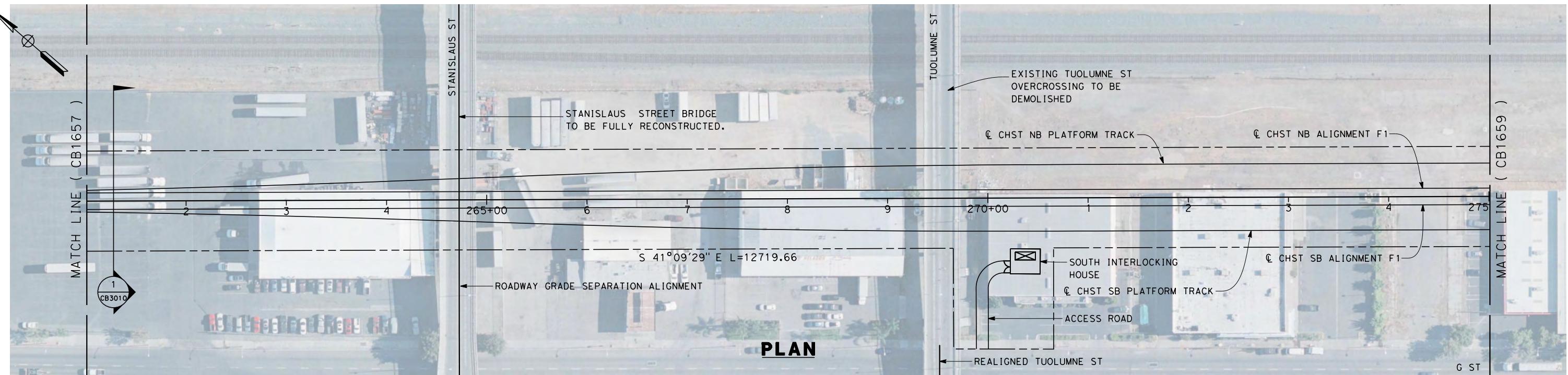
DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
STA. 257+24.56 TO 261+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1657
SCALE
AS SHOWN
SHEET NO.
2 OF 23



REV	DATE	BY	CHK	APP	DESCRIPTION
					04/03/12

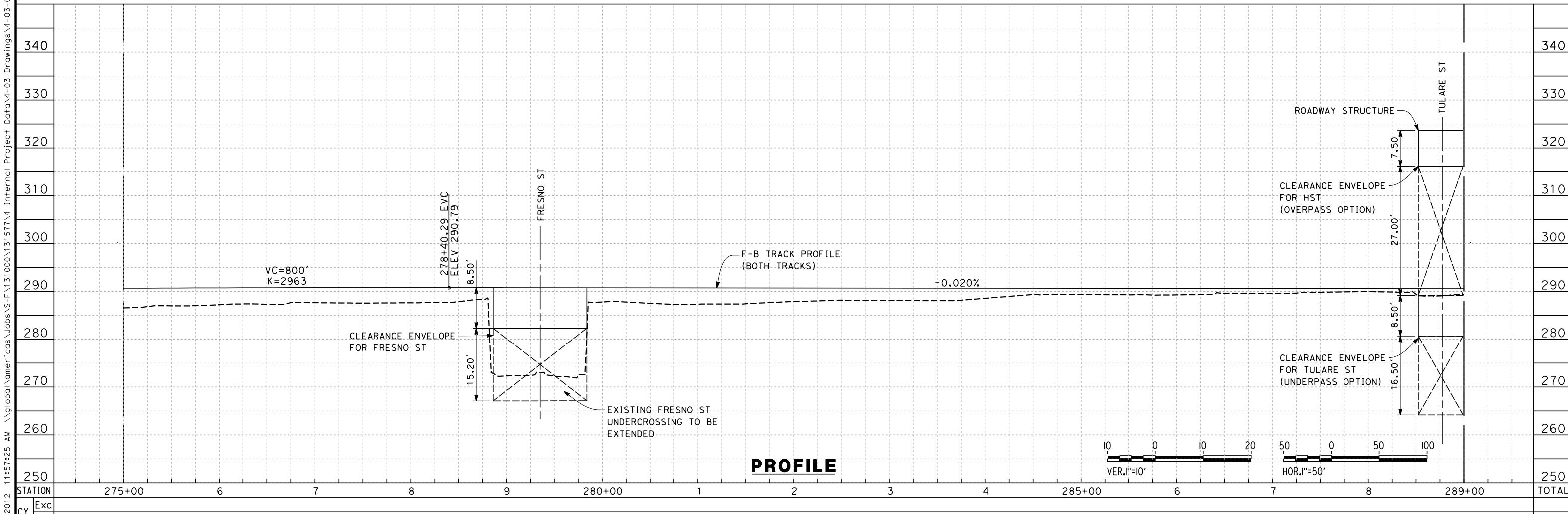
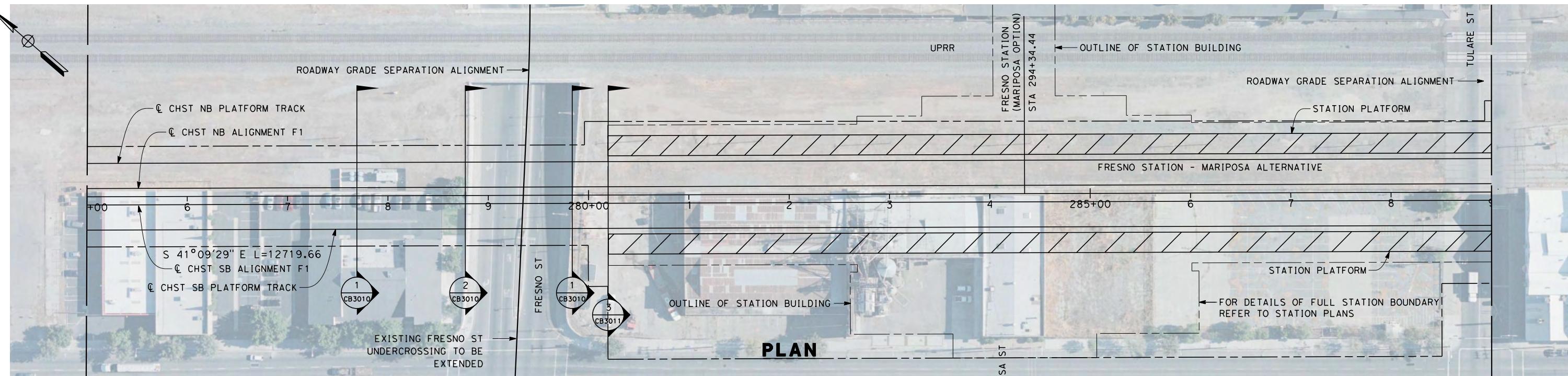
DESIGNED BY
K. SEYOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE
04/03/12

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
STA. 261+00 TO 275+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1658
SCALE
AS SHOWN
SHEET NO.



REV	DATE	BY	CHK	APP	DESCRIPTION
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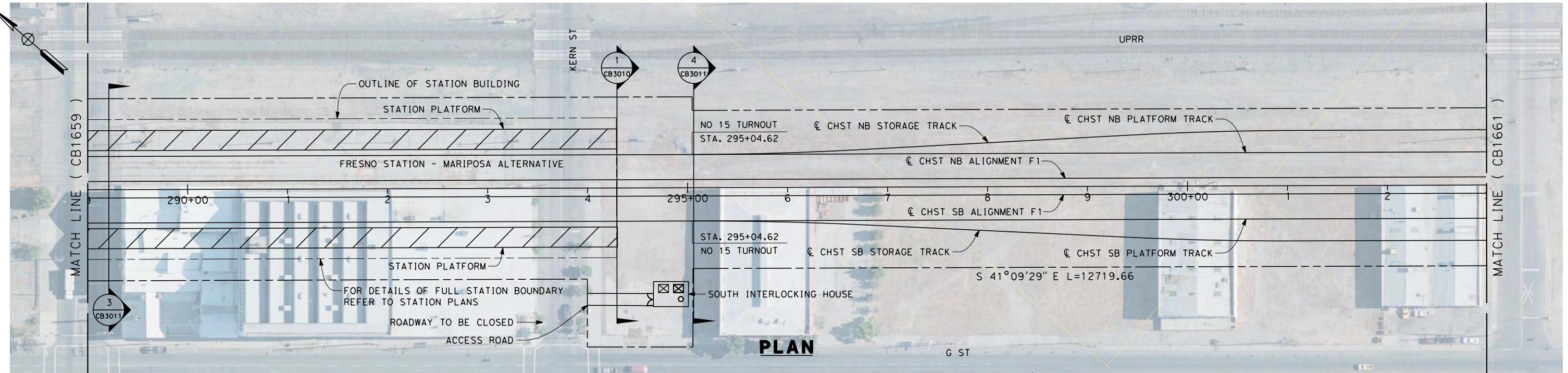
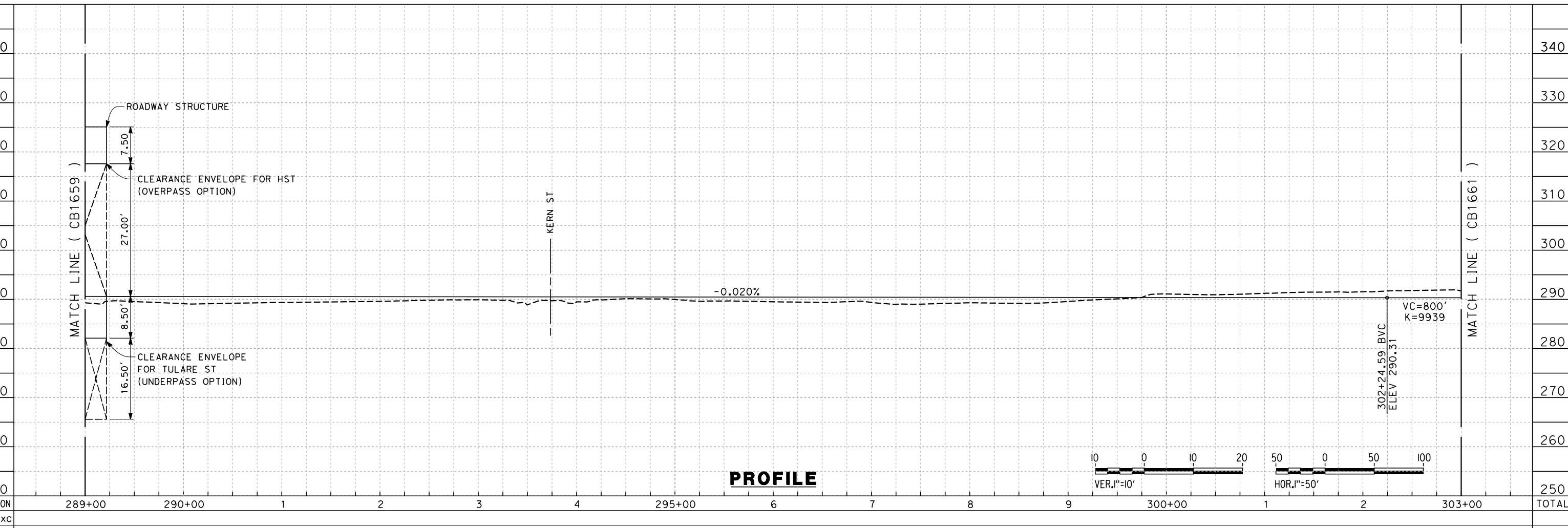
DESIGNED BY
K. SEYMORE
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE
02/15/12

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
STA. 275+00 TO 289+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1659
SCALE
AS SHOWN
SHEET NO.
4 OF 23

**PLAN****PROFILE**

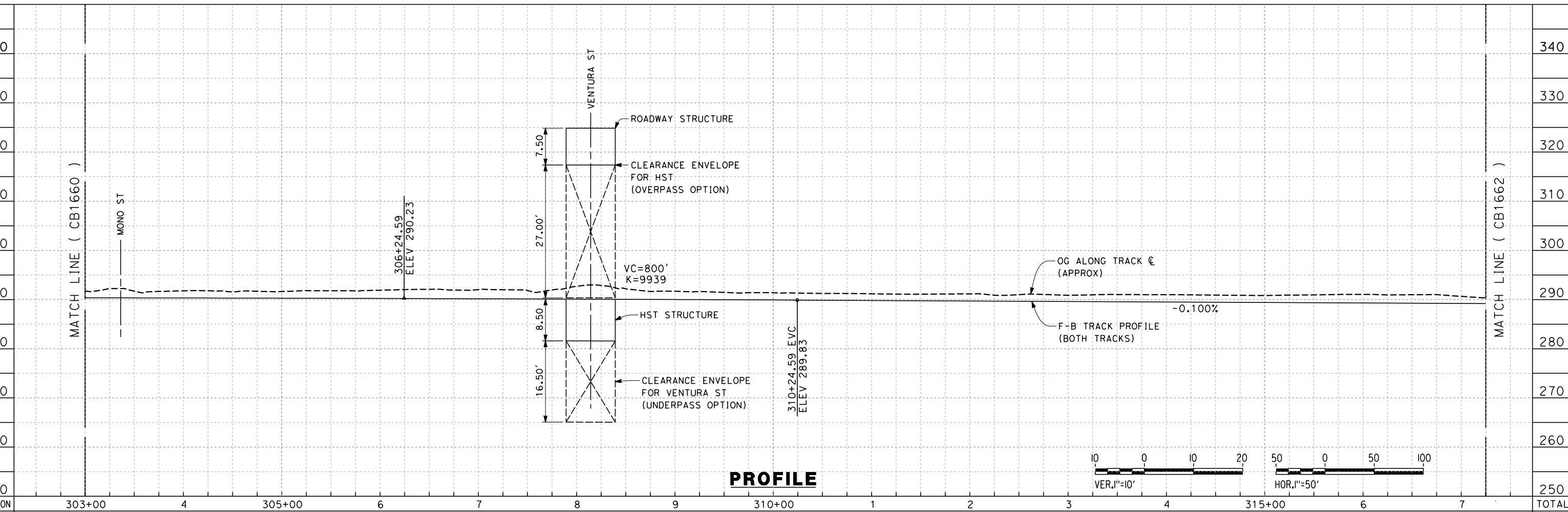
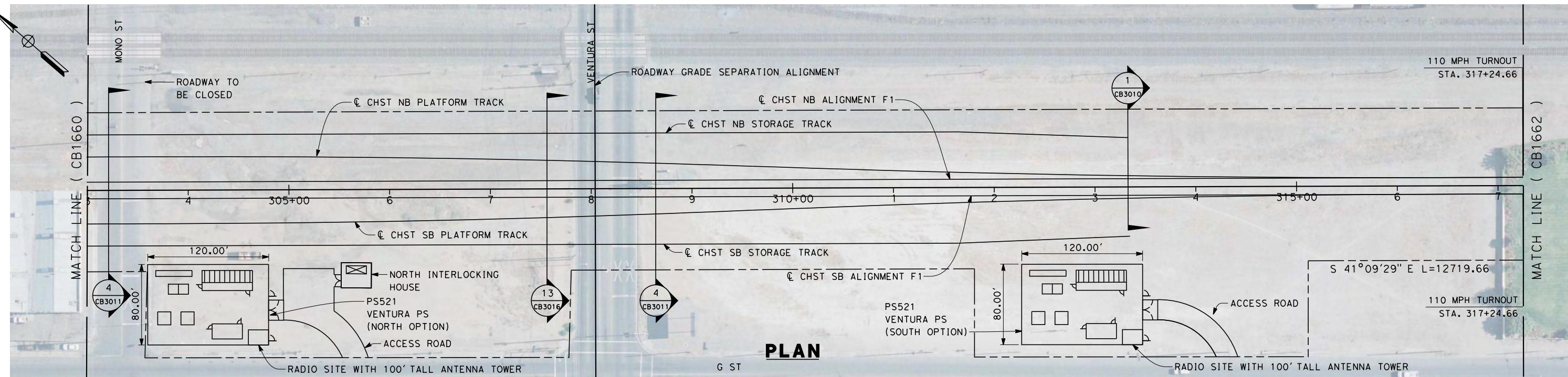
REV	DATE	BY	CHK	APP	DESIGNER		DRAWN BY P. TONKIN	CHECKED BY D. HUNT	IN CHARGE R. COFFIN	DATE 02/15/12
					DESIGNED BY K. SEYmour	DRAWN BY P. TONKIN				
REVISION SHEET										
DESCRIPTION										

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
STA. 289+00 TO 303+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1660
SCALE
AS SHOWN
SHEET NO.
5 OF 23



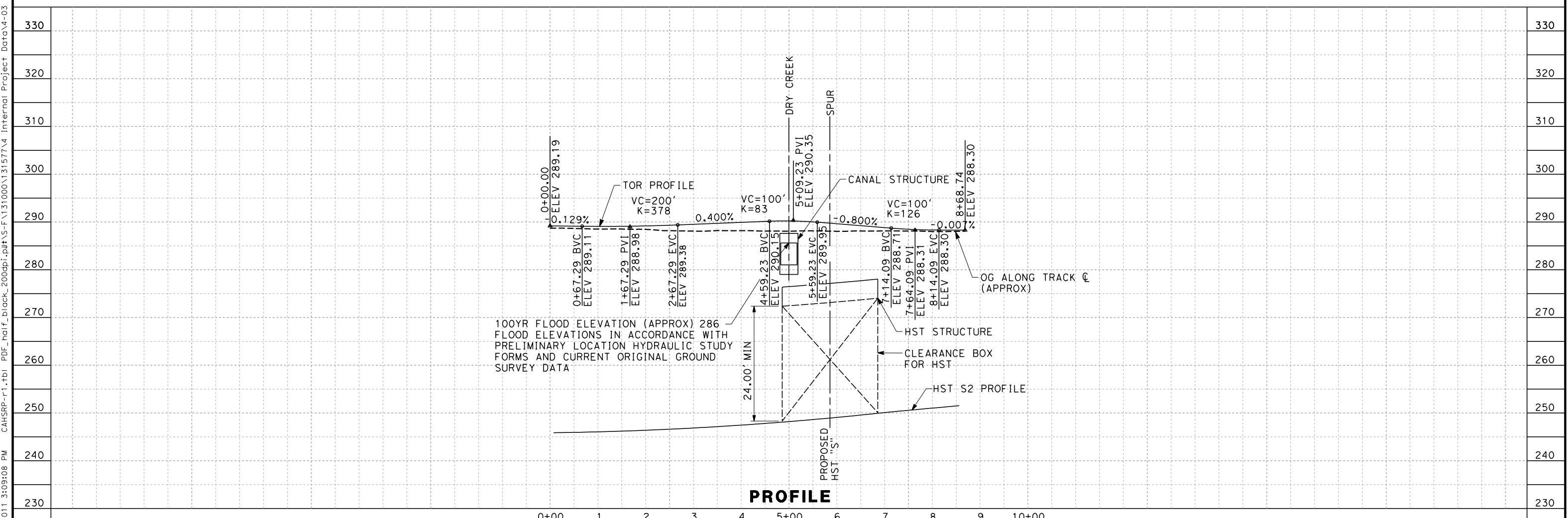
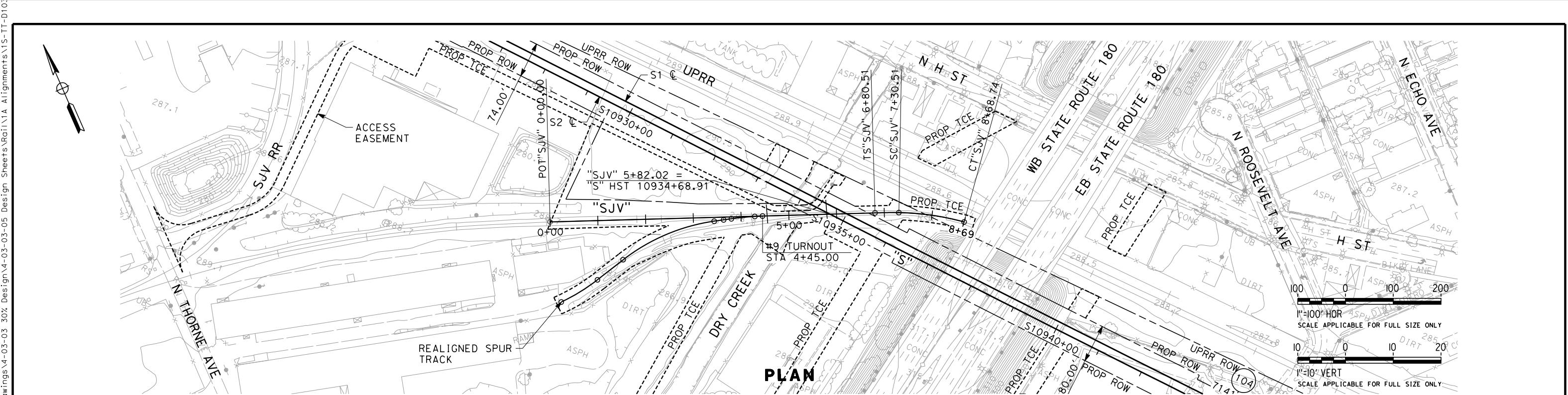
STATION	303+00	4	305+00	6	7	8	9	310+00	1	2	3	4	315+00	6	7	TOTAL
CY	Exc															
Emb																

DESIGNED BY K. SEYMOUR	RECORD SET 15%	NOT FOR													
DRAWN BY P. TONKIN	DESIGN SUBMISSION	CONSTRUCTION													
CHECKED BY D. HUNT															
IN CHARGE R. COFFIN															
DATE 04/03/12															
REV	DATE	BY	CHK	APP	DESCRIPTION										



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
STA. 303+00 TO 317+25
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1661
SCALE
AS SHOWN
SHEET NO.



Paul.Tonkin 12/8/2011 3:09:08 PM CAHSRP-F1.r1.tfb PDF - half-black 200dpi.pdf\SIERRA SUBDIVISION\STA 00+00 TO 8+68.74

DESIGNED BY K. SEYMOUR	PROPOSED PRELIMINARY DESIGN	CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION	CONTRACT NO.
DRAWN BY P. TONKIN	NOT FOR CONSTRUCTION	PACKAGE 1A SJVR SOUTHERN SPUR PLAN AND PROFILE	DRAWING NO. TT-D1030
CHECKED BY D. HUNT		STA. 00+00 TO 8+68.74	SCALE AS SHOWN
IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY	SHEET NO.
DATE 12/08/11			
REV DATE BY CHK APP	DESCRIPTION		